



THE
CASE
CATALOG



1909

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Branch Houses

Where Stocks of Machinery, Repairs and Supplies are Carried for Quick Delivery

Alberta, Calgary	Minnesota, Fergus Falls	North Dakota, Devils Lake	Saskatchewan, Regina
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FACTORY AND GENERAL OFFICES AT RACINE, WISCONSIN, U. S. A.



To Our Friends—The Threshermen and Grain Growers of the World:

THE year just closed, while bringing unfavorable business conditions, which will make it memorable, has been an exceptionally good one to us, and we wish to thank our friends for their continued loyalty, and for the kindly expressions we have received.

Having been identified with the Threshing Industry for sixty-seven years, it is only natural that we should be very much interested in everything which affects the success of the Thresherman—whether he is a user of CASE Machinery or not—or whether he is an employer or an employee.

It is with pleasure we note the efforts made to improve the conditions which control the Threshing business—to raise the standard—to make it more profitable—and in extending our New Year's greeting it is our sincere hope that the coming year may witness still greater progress, and that it will prove the greatest year from a successful Threshing standpoint, of any that ever preceded it.

As this is the time when plans are made for the coming year, we deem it expedient to offer some suggestions.

To those in other lines, who contemplate entering into a new undertaking, we would say by all means investigate Threshing as a business—it offers great opportunities—a business that requires comparatively small capital—is easily conducted—and pays a handsome percentage on the investment—if you buy wisely—and exercise ordinary judgment in the operation of your machinery.

To those who are not satisfied with the result of their past year's work—who feel that they have not bought wisely—we have only a word of advice—buy a CASE outfit, one that can be operated year in and year out at a profit under more varied conditions than any other Threshing Machinery on earth.

The CASE equipment represents a life-time spent in building Threshing Machines—no guess or slip-shod work is put in CASE Machinery—no radical changes in the construction of CASE Machines are heralded broad-cast as improvements—to be sensationaly advertised to-day and discarded to-morrow. We do not experiment at the expense of our customers—no improvement is added to a CASE Engine or Separator, or is offered for sale until it has been thoroughly tested at our expense, and its value demonstrated, and until we know that it will add to the life of the machine, increase its earning capacity, or make it do more perfect work.

Racine, Wis. U.S.A.

Simplicity, efficiency, durability, these have been our guiding stars. Rejecting always the complicated for the simple—we have succeeded in building an Engine that is remarkable for its extreme simplicity and correct scientific construction—its ease of operation—its low fuel consumption, and its adaptability to all uses.

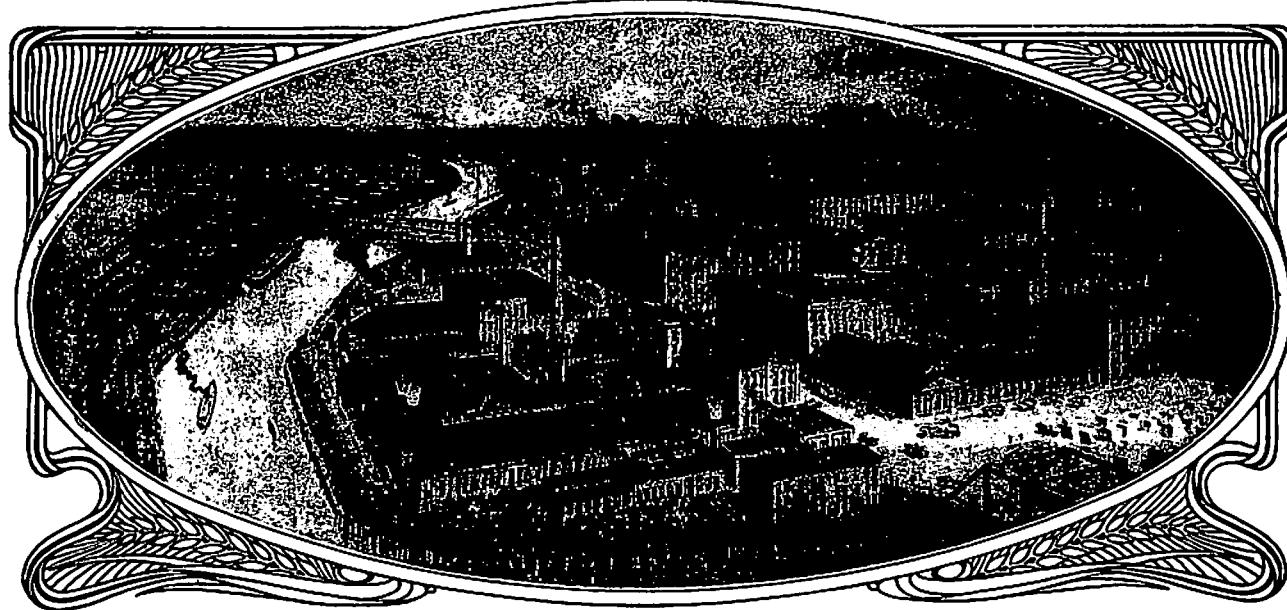
A Separator that threshes all the grain—leaves it in perfect condition—thoroughly cleaned and ready for the market, giving the Grain Grower a positive knowledge that when his grain has been threshed by a CASE Separator, he has received his entire crop unbroken, and in the best possible condition, insured him the highest grade, and the best market prices. That this is understood and appreciated by the Grain Growers of the world is evidenced by the thousands who wait—frequently for weeks—for the progressive thresher with a CASE outfit.

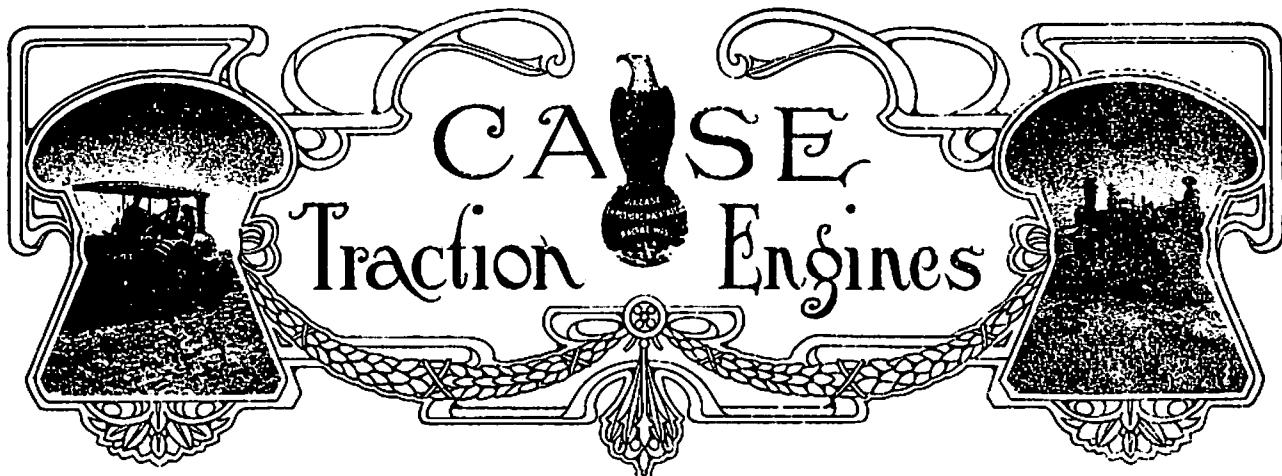
Owing to the perfect distribution of the weight and their great power—our Traction Engines are wonderful hill climbers and can be operated in all sections of the country—over all kinds of roads.

This Catalogue, (1909 edition) contains a complete description of our entire line of Threshing Machinery, showing the recent improvements, together with a fund of valuable information for all Threshermen. It also contains a complete list of branch houses and agencies, where CASE Machinery is kept for your convenience and most critical examination.

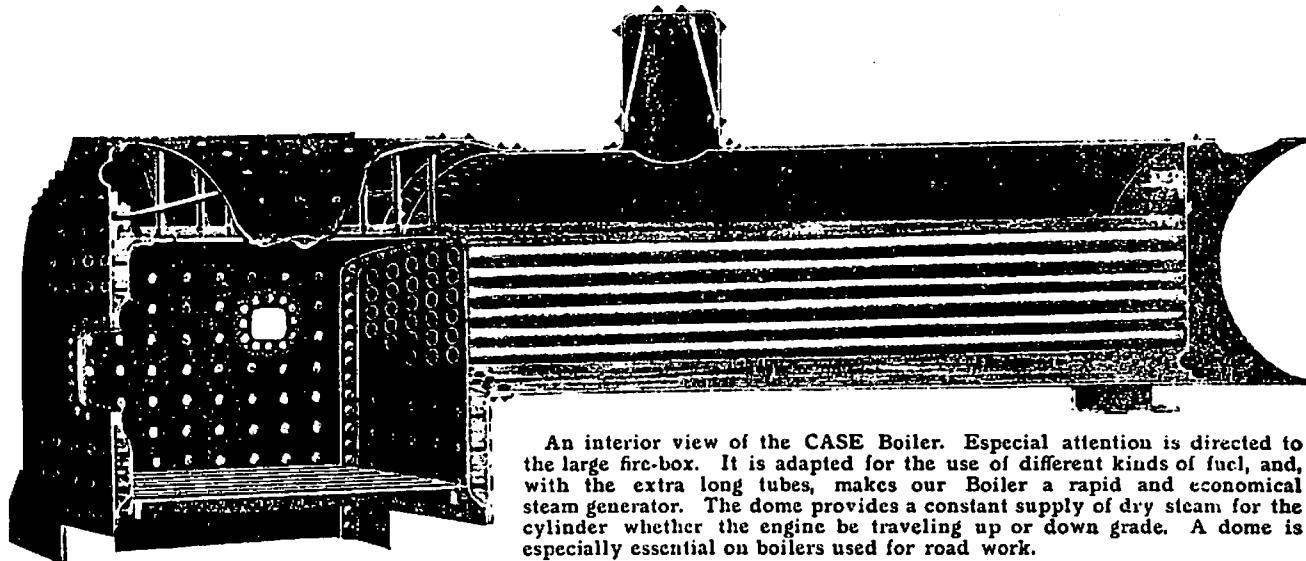
We have no vague promises to make—the same high grade materials, and the CASE system of inspection, will be continued in the construction of CASE Machinery, and in soliciting your patronage for 1909 we wish to again thank both the Threshermen and the Grain Growers, who have been so largely responsible for the growth of our business, which now requires the largest plant in the world, devoted entirely to the manufacture of Threshing Machinery.

J. I. CASE THRESHING MACHINE CO.
(INCORPORATED.)





Boiler Construction



An interior view of the CASE Boiler. Especial attention is directed to the large fire-box. It is adapted for the use of different kinds of fuel, and, with the extra long tubes, makes our Boiler a rapid and economical steam generator. The dome provides a constant supply of dry steam for the cylinder whether the engine be traveling up or down grade. A dome is especially essential on boilers used for road work.

STEAM is the only reliable method of developing power for engines for the heavy operations of agriculture, for grading, heavy hauling, overland freighting, plowing, saw-milling, rock crushing, pulling stumps and moving buildings.

One of the most important requirements of traction and portable engines is a safe, strong boiler of suitable proportions, well made and thoroughly tested before leaving the factory. As a measure of absolute safety we test each of our Boilers—first under a cold water test of 200 pounds per square inch; second, when the completed Engine comes from the erecting room it is kept under 130 pounds steam pressure for several hours and worked on a Prony brake. Owing to the construction and these rigid tests there are no complaints from customers because of leaky Boilers or defective Engines.

The 32-horse Boiler is tested at 250 pounds cold water pressure and the completed Engine is kept under a steam pressure of 160 pounds for several hours and worked on a Prony brake.

CASE BOILERS are of the true locomotive type with open bottom fire-box. They are made from the best grade of open hearth flange steel of 60,000 pounds per square inch tensile strength. All plates are subjected to a physical and chemical test in our laboratory. The seams are double riveted and all the riveting is done by hydraulic pressure, which is superior to the ordinary hand method. There are no transverse seams in barrel of Boiler.

Prices Quoted on Pages 61, 62 and 63.



THE DOME is located near the center, is well braced and has ample capacity to furnish dry steam at all times. This is shown by the quality of the steam as determined by calorimeter tests. A Kunkle Lock Pop Safety Valve is attached to the dome.

The FIRE-BOX is of ample size to insure the proper combustion of the fuel at all times without forcing, while the tubes are so proportioned that they extract practically all of the heat from the fire before allowing the burnt gases to escape in the smoke stack. It has open bottom with front and rear draft doors which insure good combustion. The fire-box sheets are flanged to meet the outer sheets, thus omitting entirely the objectionable mud ring.

The CROWN SHEET is stayed to outer sheet in the manner common to locomotives. Stay bolts of special double-refined iron, seven-eighths inch diameter are used, spaced four and one-half inches apart in both directions. The heating surface, grate surface and size of cylinder are proportioned to give best results. The crown sheet is fitted with a fusible plug.

The SIDE SHEETS are extended down and form the sides of the ash-pan. To the sides of the Boiler are riveted extra heavy sheets carrying the Engine gearing, etc. The weight of the Boiler is carried on springs resting in pressed steel brackets held to the Boiler by rivets and by bolts below the water-line. In this way no important part is held to the Boiler by bolts tapped into the steam or water-space.



Compressed section of Tube showing ductility.



Flattened section of Tube.



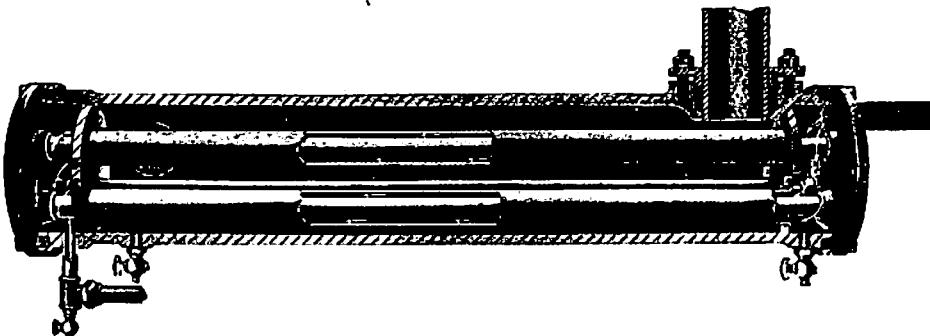
End of Tube flanged.

BOILER TUBES. The Tubes are made from cold drawn seamless steel, soft and ductile in quality, which makes them easy to bead, expand and fit in the flue sheet. They are two inches in diameter and arranged in vertical rows, which insures free circulation of the water and permits sediment to settle on the bottom where it can be washed out through the hand holes. They are readily accessible for cleaning.

HAND HOLES. Six hand hole plates for cleaning the boiler are located as follows: One at each corner of water-leg, one below tubes in front-tube-head and one in rear boiler head above crown sheet.

JACKETING. The jacket consists of wood lagging covered with hammered polished sheet steel with brass bands at the joints. Purchasers appreciate the value of jacketed Engines. The slight additional cost is more than saved by a prevention of heat waste, especially in northern climates. A jacketed Engine is more easily kept free from dirt and oil and in better condition than one without.

Prices Quoted on Pages 61, 62 and 63.



Sectional View of Feed Water Heater

THE HEATER with which our Engines are equipped is very simple in construction, comprising tubes which are expanded and calked in the head at each end. In each tube is placed a pipe extending its full length, which forms an annular space, about one-eighth of an inch thick, through which the feed water must pass and is raised to a high temperature by the exhaust steam surrounding the tubes. Our heater is provided with drain cocks and will cause no annoyance from burst pipes and leaky joints, and is easy of access for cleaning or repairing. The independent pump in connection with our patent feed water exhaust heater makes the most economical boiler feeding arrangement known. Without a heater much valuable heat in the exhaust steam is wasted.

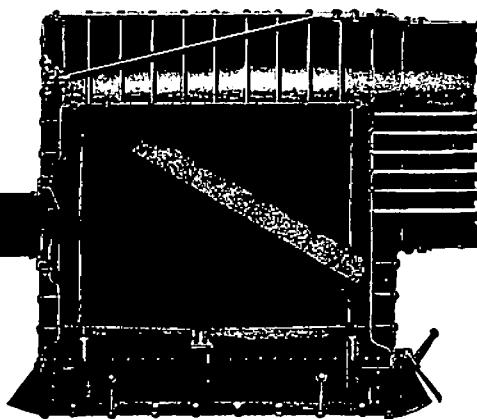
Each Engine is fitted with a pump and an injector, which are piped independently of each other.

The Straw-Burning Boiler

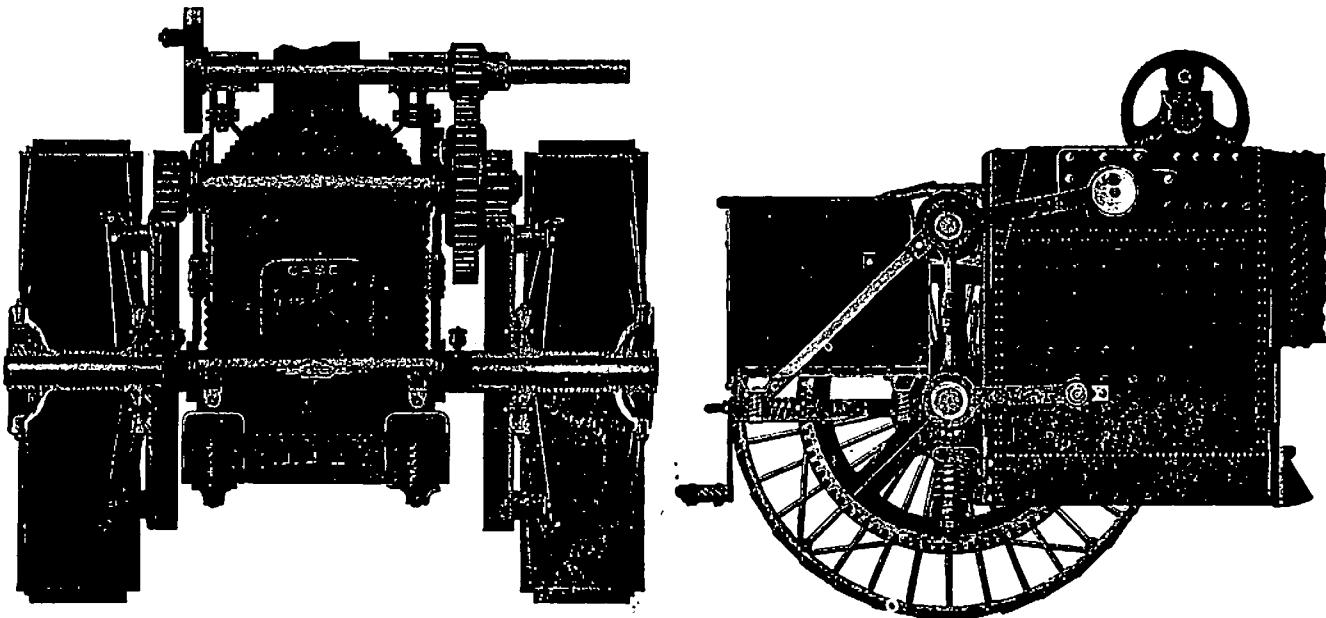
The CASE Straw-Burning Boiler differs from the coal burner only in the substitution of a fire-brick arch and short grates with a dead plate at the fire door end in place of the usual coal or wood grates. The straw chute with flaring outer end is fitted to the fire door

so the straw can be easily fed into the furnace. The trap door which excludes the air when the chute is not filled with straw is placed inside the chute. After the boiler has been fired a short time the brick arch becomes white hot, which tends to keep the fire-box at an even temperature and to insure perfect combustion and uniform evaporation. Because of the dead plate the draft enters the fire-box at the front end and is drawn against the straw as it is forced through the door. This secures rapid ignition, which is not the case in return-flue boilers where the draft is always away from the straw. Our Straw-Burning Boiler

can be changed for wood or coal by removing the brick arch and straw chute and substituting the regular fire door and the coal grates.



Fire-Box of Straw Burner Boiler



To Show Bearings of Countershaft and Rear Axle, Long Hubs of Traction Wheels, Distance Links and Springs Supporting Boiler

View of Radius Links, Distance Link and One of the Springs Supporting Boiler, Springs under Platform and in Drawbar

The Illustrations Show how the Boiler on the CASE Engine is Suspended on Springs and Carried in Front of the Rear Axle and Countershaft, also the Double Drive Traction Gears.

BOILER, MOUNTED ON SPRINGS. The safety and stability of the CASE Boiler is insured by mounting the Engine crankshaft on bearings supported by steel wingsheets. These have sufficient elasticity to absorb the Engine vibrations which would fall on the Boiler if the bed plates were bolted to it, as is done on many makes.

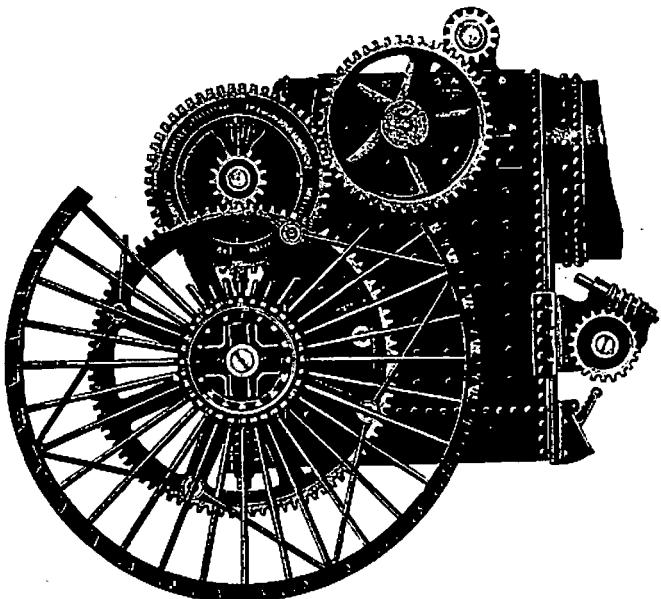
The independent mounting of the traction gearing and suspension of the Boiler on springs constitutes one of the notable features of the CASE Engine. It will be noted that the weight of the Boiler is supported by steel spring-pot brackets resting on the double spiral springs. The springs are suspended from the lower cannon-bearing, which encases the axle, on eye-bolts which allow the springs free play.

Two steel radius-links on either side connect the Boiler to the countershaft. The distance between countershaft and rear axle is maintained by distance-links provided with turn-buckles which allow the gears to be kept in perfect mesh. These links permit an up-and-down movement of the Boiler without in any way disturbing the mesh of the gears or the equilibrium of the Boiler, or subjecting them to shocks or strains.

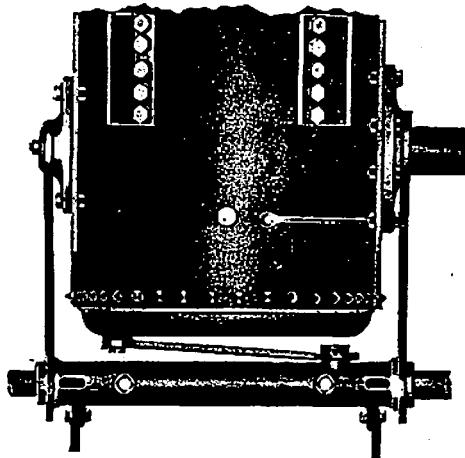
A steel cross-link held to the rear of the Boiler by means of a stud bearing, and fitted over a trunnion on the upper cannon-bearing, prevents sideplay of the Boiler or countershaft. On the lower cannon-bearing, is a heavy lug fitted with a malleable slide which is kept in position by parallel guides secured to the Boiler below the fire-door. With the cross-link above, this arrangement prevents all side or end play. The countershaft and gearing is arranged so that the furnace door is easily accessible. All gearing is extra heavy and the driving gears are braced to the rim of the traction wheels which eliminates the torsional strain on the hubs. The countershaft is extra heavy and runs in babbitted bearings, both of which are formed by a continuous "cannon" bearing, thereby insuring and maintaining their perfect alignment.

Prices Quoted on Pages 61, 62 and 63.

Semi-Steel Traction Gears



"CASE" Semi-Steel Traction Gears—Power is applied to both drivers through the extra large rim of the bull gears direct to the tires of both traction wheels. On some makes power is applied through the hubs and spokes only.



Showing Cross-Link and Stud Bearing to Prevent Side Play of Boiler.

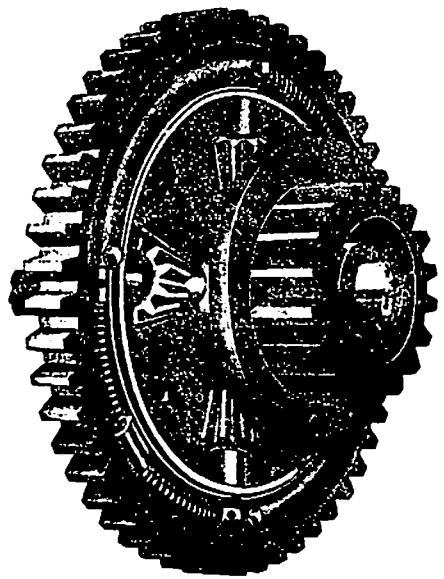
Our system of spring mounting is not only theoretically correct, but has proven thoroughly efficient on engines doing all kinds of road and contract work and plowing.

THE TRACTION GEARS on CASE Engines are designed with special reference to durability. They are of CASE special semi-steel, cast in our special gear foundry and prepared from specifications made in our laboratories.

DOUBLE GEARING. The differential on the CASE Engines is located on the countershaft—two pinions and two spur gears being used to transmit the power to the traction wheels. This system of double gearing is much more durable than on those engines which have no differential or have it located on the rear axle and consequently transmit all the power from the countershaft to the traction wheels by means of a single pinion and spur gear and therefore are single geared.

In addition to the spring mounting of the boiler and spring differential, we will mention that the platform is mounted on springs, the draw-bar has a good strong one and each of the guide chains has one to give elasticity and to keep the chain taut. The traction wheels of an engine are subjected to severe usage and their construction should claim the close attention of purchasers. We discarded cast iron wheels years ago, as they were too easily broken or cracked and therefore unreliable. The built-up steel wheels on CASE Engines take more time to construct but can be repaired, while cast wheels cannot. They are superior in every respect.

Prices Quoted on Pages 61, 62 and 63.



DIFFERENTIAL GEAR. In addition to the friction clutch, our Engines are equipped with a Spring Differential Gear in which a series of coil springs receive the impact of sudden starting and gradually transmit power to the driving gears. The differential itself is very essential in that it facilitates turning, by equalizing the distance of travel of the traction wheels. It is well to emphasize at this point that both rear wheels on CASE Engines are drivers at all times, going either forward or backward, in a straight or curved path.

THE STEERING GEAR is fitted to the front end of fire-box with strong brackets which hold the chain roller in place. The chain roller is cast on the principle of a right hand auger forming a guide chan-

nel for the chain to prevent it from crowding or overlapping. The steel chains are supplied with springs, and by means of our method of attaching to the front axle have the same leverage in turning the front axle, whether the wheels be straight or cramped to their utmost. With this arrangement the chains are kept at the same tension and guiding of the engine is done with comparative ease.

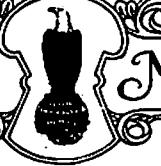
THE TRACTION-WHEEL HUBS are much longer and stronger than those of other makes. The axle revolves with the wheels and the gears are kept in perfect alignment. This cannot be possible on engines with stub axles, as they will soon wear in the journals and tip in at the top, which will cut out the gears in a short time.

Hill Climbing Engines

We lay special emphasis on the traction ability of our Engines, because it is this specific qualification that justifies the name. The first "traction" engines were only self-propelling and were not expected to climb hills and pull loads. The real possibilities of the traction engines were not manifested until the present CASE Engine was put on the market in the later nineties. The large wheel base, boiler mounting, double gears, more equal distribution of weight on front and rear axles and their great power make the CASE the premier puller up hill or on the level and over all conditions of roads.

"When the question of paving Main St. of our city was agreed upon, I suggested to the Commissioners the necessity of having a traction engine. They purchased one of your 20-horse Compounded Traction engines, and by so doing saved the cost of same in tearing up the old asphalt off Main St. As to pulling our scarifier it requires from four to six teams to pull same, whereas your engine does the work besides covering twice the territory in a day's work. Now, we have been using it almost constantly for six months, and assure you that it has given perfect satisfaction, so I can safely recommend it to any City Government that may have use for such an engine for street work."—BEN SIRA, Foreman, PAT O'KEEFE, Secy., S. & B. Dept., City of Dallas, Texas.

Prices Quoted on Pages 61, 62 and 63.



Engine Mechanism

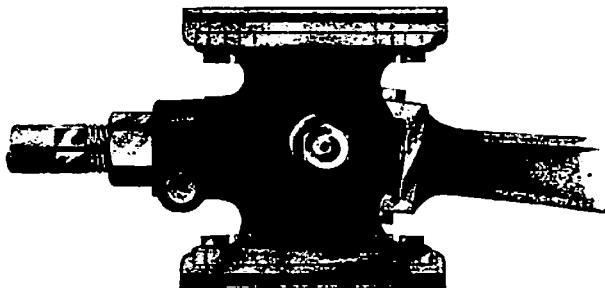
TYPE OF ENGINE. The Engine is a single sidecrank of the simplest type. The frame is of the girder pattern, and the cylinder end is faced and the guides bored at one setting so that they are in perfect alignment with the cylinder. Before removing the frame from the boring machine the main bearing is accurately bored at right angles to the central line of the guides. Every part is readily accessible for oiling or adjustment. Owing to large disc and heavy fly-wheel, the Engine is perfectly balanced and may be run as slowly as desired.

THE SIMPLE CYLINDER AND STEAM-CHEST are cast in one piece of special close-grained iron, which insures a smooth, durable and easily lubricated surface. To guard against boiler expansion all the cylinders of our Engines overhang the frame and are not bolted to the boiler or to a heater. The steam ports are of ample area to prevent "wire drawing" with all unnecessary clearance or waste space avoided.

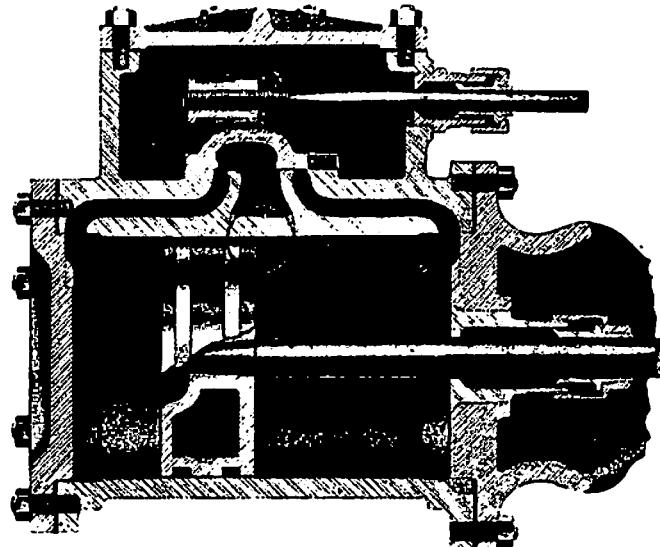
THE SLIDE VALVE is the plain D style locomotive type. The valve and valve-seat on every Engine are carefully machined to a true surface and then scraped by hand to insure a perfect steam-tight fit.

THE PISTON is a single hollow casting of sufficient width to give ample bearing and wearing surface. The Piston Rings are of improved form and self-adjusting. The Piston Rod is made of a selected grade of steel. The hole in the piston for the piston rod is bored to a standard taper and the piston head is forced on with a pressure of about twelve tons. As additional security a jam-nut is put on and the end of the rod is then riveted over.

THE CROSSHEAD is fitted with shoes, accurately turned to the same radius as the bore of the guides. The shoes may be easily adjusted by means of two screws at each end so that the wear may be taken up and the piston rod kept in proper alignment.



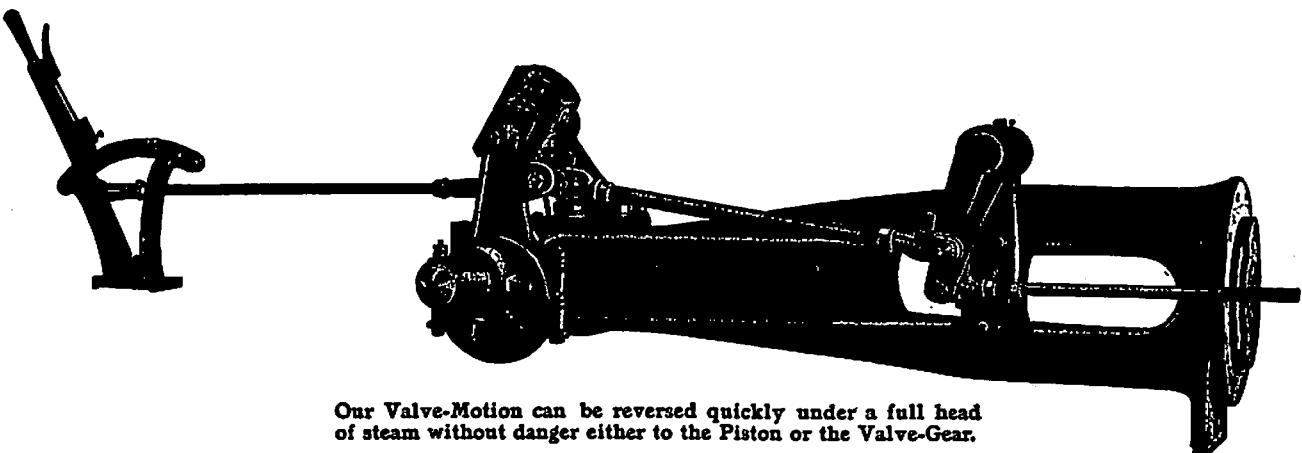
Crosshead with Adjustable Shoes



Sectional View of Simple Cylinder

thrust, and reducing the friction between the crosshead shoes and guides. The Connecting Rod Boxes are made of phosphor bronze, the best anti-friction material obtainable.

Prices Quoted on Pages 61, 62 and 63.



Our Valve-Motion can be reversed quickly under a full head
of steam without danger either to the Piston or the Valve-Gear.

THE CRANK-DISC is of large size and properly proportioned to counterbalance the reciprocating parts. It is forced on the shaft by hydraulic pressure of at least fifteen tons and afterwards a carefully fitted key is driven. The crank-pin is also pressed into the disc by heavy hydraulic pressure and afterwards riveted.

IN OUR VALVE GEAR we combine the utmost simplicity with the greatest utility. All trappy and complex parts are avoided. Wearing parts are reduced to the smallest possible number and constructed with a view to ease of adjustment. We use a single eccentric fastened to the crank-shaft by two "dog-point" set screws, countersunk in the shaft, to prevent slipping. The eccentric strap has an extended arm, pivoted to which is a maple block sliding in a guide. The direction of this guide can be changed by the reverse lever, and the inclination or angle at which it is set determines the direction in which the Engine is to run. The degree of this angle also fixes the "point of cut-off," which governs the amount of steam admitted to the cylinder during each stroke.

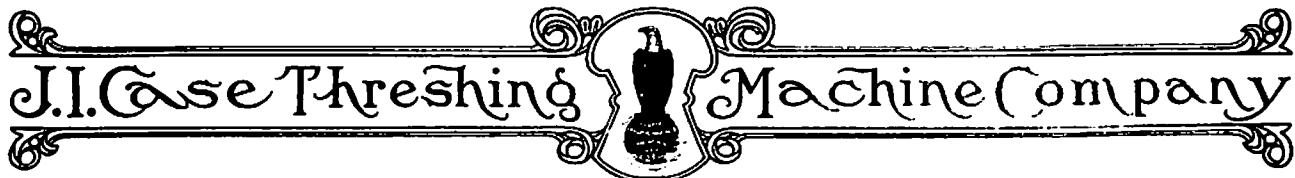
The eccentric strap is adjustable so that all wear can be readily taken up. The wood block is made of hard maple boiled in oil. The eccentric rod is provided with brass boxes, all wear being taken up with keys. The rocker-arm end of valve rod is also provided with brass boxes and key, which makes a valve gear on which the wear may be readily taken up at any time by the operator, thus insuring a smooth-running Engine at all times.

THE QUADRANT is provided with notches at each end, which allows the operator to adjust the movement of the valve to conform to the work the Engine is doing. The Quadrant is also provided with a central notch in which position the Engine will remain stationary should the throttle be opened inadvertently.

THE WATERS THROTTLING GOVERNOR maintains a uniform speed of the Engine at any desired rate and can be adjusted by the operator to a range of from 100 to 300 revolutions of fly-wheel per minute. The operator is thus allowed to devote his attention elsewhere, and can depend on the governor keeping up the constant speed of the Engine.

THE CASE OIL PUMP for lubricating the steam cylinder, acts on the force-feed principle. It is actuated by the valve-gear, and is a positive feeder under all variations of temperature. When the Engine is not running the pump ceases to act and no waste of expensive oil ensues. A gravity check-valve prevents the oil from being drawn over in case of a vacuum in the cylinder.

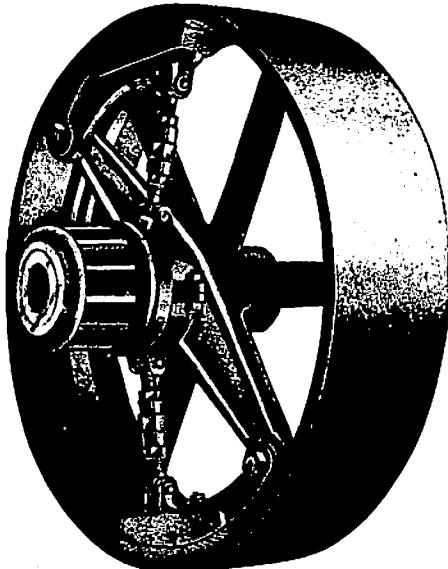
Prices Quoted on Pages 61, 62 and 63.



Engine Mechanism

THE FLY-WHEEL is of good proportion and serves as an excellent balance for the Engine. The face of the fly-wheel is turned down in a lathe, with a slight crown in

the middle to make the belt run true when using the Engine for stationary work. It is within easy reach from the platform but clear of the traction wheel so there is no difficulty in putting on or taking off the belt. Nor is there the possibility of damage to the belt should it be thrown off while the Engine is running as is the case with others having fly-wheel mounted between traction wheel and boiler.



Fly-wheel and Friction Clutch—Important features.

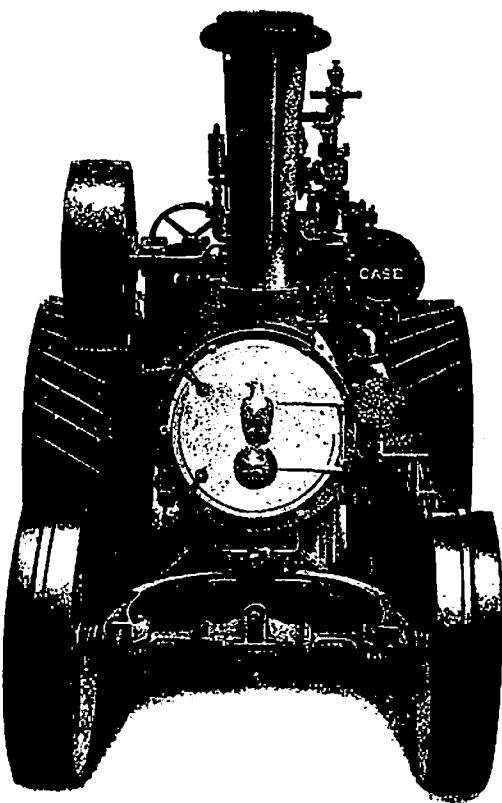
buckles with lock-nuts are provided to keep in perfect adjustment the wooden shoes which bear against the rim of the fly-wheel. With our clutch the belt can be tightened while threshing. Without reversing, the Engine can be backed slowly until the belt is as tight as desired, and without loss of valuable time.

Threshermen are undoubtedly familiar with the legend: "The CASE is the only real hill climber," from our incline exhibit at state and county fairs. These are convincing demonstrations, but are being duplicated in actual practice every day in the year by our customers.

"Purchased in 1906 one of your CASE 32-54-inch separators with feeder and common stacker; also purchased a 15-horse gas engine to run the same. In 1907 traded engine and got a 20-horse gas engine, and found this was not satisfactory. This season I purchased one of your CASE 20-horse simple traction engines and 54-inch wind stacker. CASE machinery is alright in every respect, and would recommend to anyone to investigate the CASE steel separator and attachments and CASE engine before they purchase any other or fool their time away with a gas engine."

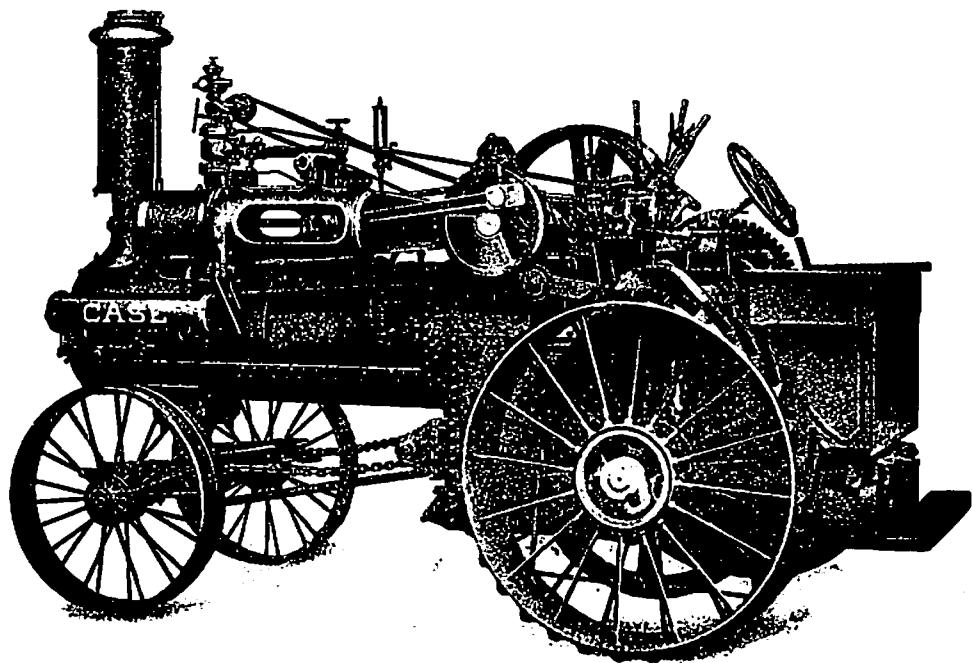
—JOSHUA STAHL, Yale, South Dakota.

THE FRICTION CLUTCH with which our Engine is equipped is a most complete, efficient and convenient device for transmitting the power of the Engine to the traction gearing. It is positive and reliable in its action and can be engaged or disengaged either when the Engine is at rest or when running. By means of the friction clutch the Engine may be instantly disconnected from the gearing when desired for belt power. Turn-



Front View of Traction Engine.

Prices Quoted on Pages 61, 62 and 63.



7 1/4 x 10-Inch Cylinder Simple Traction Engine

Rated 9-Horse—Develops 30 Brake (Stationary) Horse-Power

This is a light, powerful Traction Engine suitable for driving small separators, corn shellers, feed grinders, rock crushers, cotton gins, and will pull a heavier load than any other make of Engine of equal weight over ordinary roads.

"The CASE 9-horse engine is a puller under the belt and on the road. It has proved to be the only real hill climber in this section, being the first one to pull a separator up Mount Nebo hill; others having tried but failed."—MOLLENKOPF BROS., East Palestine, Ohio.

"Our CASE engine is the very thing needed in this country for climbing over hills. It is a light water and coal user,—ten bushels of coal and twelve barrels of water will run it a whole day. Gives good service, and takes the lead of anything that has been in this country."—C. F. WILLISON, Route 5, New Bethlehem, Pa.

SPECIFICATIONS

Built with simple or compounded cylinders. Furnished as coal or wood burner only.

BOILER BARREL—26 inches in diameter.

FIRE-BOX—Length, 30 inches; width 23½ inches; height, 28 inches.

TUBES—Number, 38, 1¾-inch diameter, 67 inches long.

HEATING SURFACE of boiler, 119.3 square feet.

GRATE AREA—4.89 square feet.

STEAM PRESSURE—130 pounds per square inch.

FLY-WHEEL—36-inch diameter; face, 9½ inches; speed, 250 R. P. M.

FRONT WHEELS—Height, 38 inches; tires, 8 inches wide.

TRACTION WHEELS—Height, 4 feet 5 inches; tires, 14 inches wide regular. On special order 16-inch.

TRACTION SPEED—Miles per hour, 2.26.

EXTREME WIDTH of engine with 14-inch tires is 7 feet 1 inch.

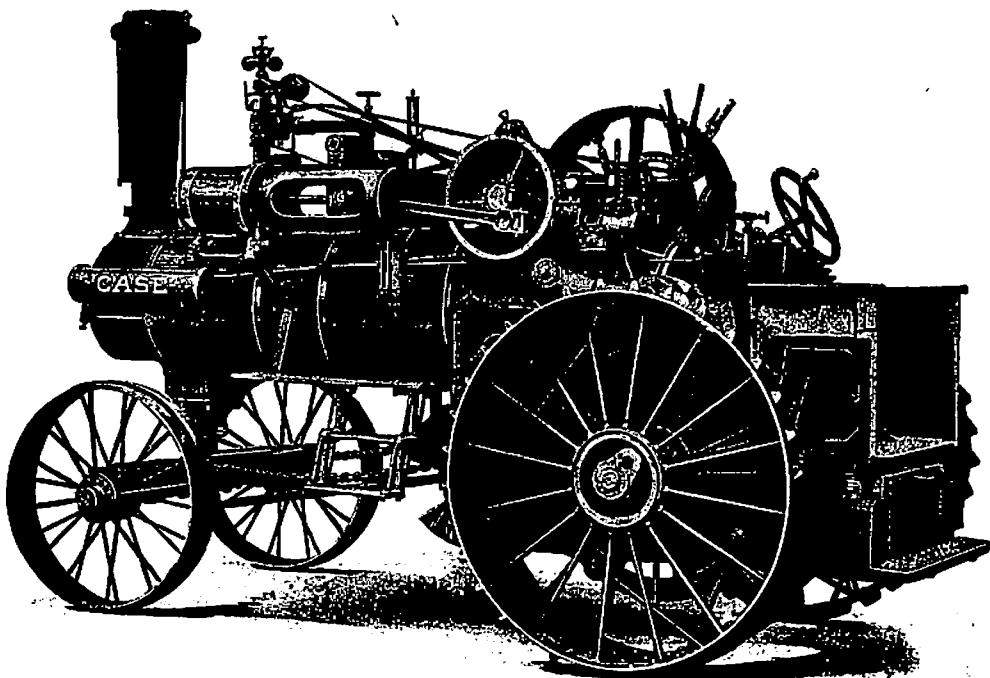
HEIGHT, to top of stack, 8 feet 9 inches.

DISTANCE between axles, 8 feet 1½ inches.

WEIGHT, with boiler empty, 10,917 pounds.

ATTACHMENTS on special order: Jacketed boiler, winding drum, canopy (special size), headlight.

Prices Quoted on Pages 61, 62 and 63.



8 1/4 x 10-Inch Cylinder Simple Traction Engine

Rated 12-Horse—Develops 36 Brake (Stationary) Horse-Power

This engine, like all our engines, is very powerful for its rated horse-power, as is testified to by users. It has ample power to operate moderate sized separators and is a very easy engine to handle.

"The CASE 12-horse traction engine is equal to any 15-horse engine built."—Roy GATES, Ottumwa, Iowa.

"The CASE 12-horse engine uses less coal and water than any other in the country and is the easiest handled on the road and will pull more than any other near its size."—JOHN C. KINCAID, Cowgill, Missouri.

SPECIFICATIONS

Built with simple or compounded cylinders. Furnished as coal and wood, or straw burner.

BOILER BARREL—26 inches in diameter.

FIRE-BOX—Length, 35 inches; width, 25 1/2 inches; height, 35 1/2 inches.

TUBES—Number, 30, 2-inch diameter, 77 inches long.

HEATING SURFACE of boiler, 134.5 square feet.

GRATE AREA—6.19 square feet.

STEAM PRESSURE—130 pounds per square inch.

FLY-WHEEL—40-inch diameter; face, 10 1/2 inches; speed, 250 R. P. M.

FRONT WHEELS—Height, 42 inches; tires, 8 inches wide regular. On special order 10-inch.

TRACTION WHEELS—Height, 5 feet; tires, 16 inches wide regular. On special order 18- and 20-inch.

SPEED—Miles per hour, 2.61.

WIDTH of engine with 16-inch tires is 7 feet 5 inches.

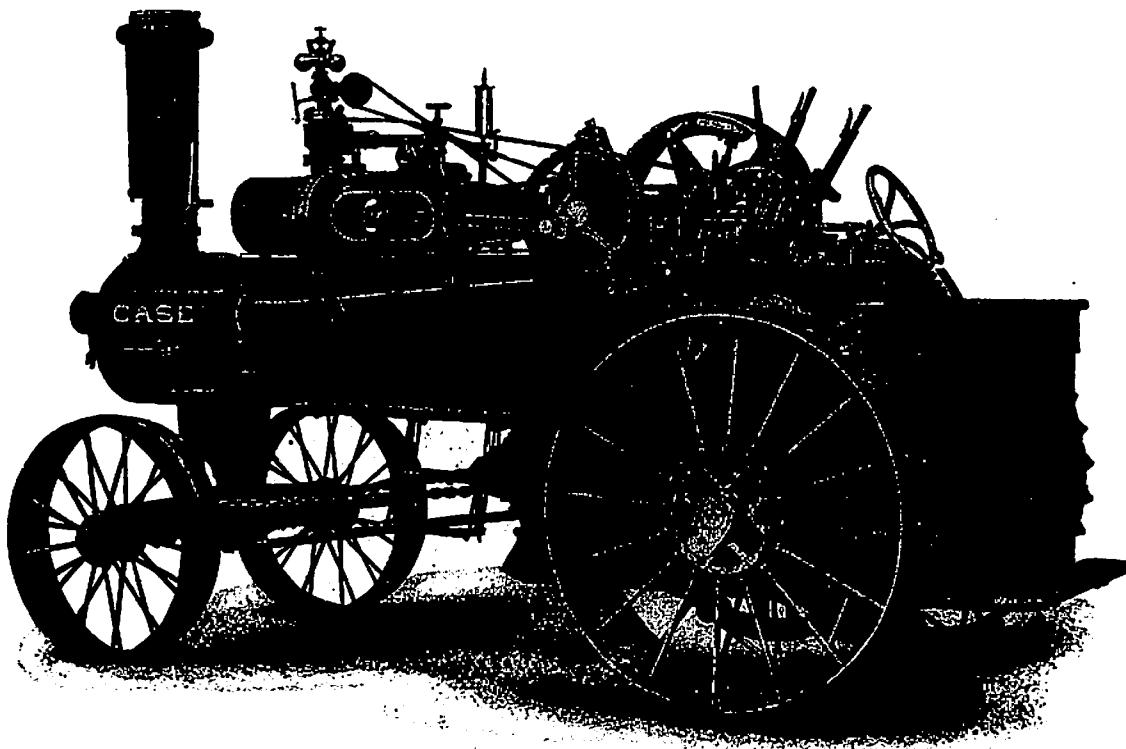
HEIGHT, to top of stack, 9 feet 7 1/2 inches.

DISTANCE between axles, 9 feet 5 1/4 inches.

WEIGHT, with boiler empty, 13,007 pounds.

ATTACHMENTS furnished on special order: Contractor's fuel bunkers, winding drum, jacketed boiler if coal burner, long or short canopy, headlight.

Prices Quoted on Pages 61, 62 and 63.



9 x 10-Inch Cylinder Simple Traction Engine

Rated 15-Horse—Develops 45 Brake (Stationary) Horse-Power

This is an engine that has found favor everywhere, doing service at all kinds of work. It is what may be termed a medium-sized engine and therefore we have used it promiscuously to demonstrate the traction qualities of all our engines. These demonstrations on grades of 50 per cent. and the popularity it has earned with the threshing public are the strongest testimonials of its worth.

"My CASE 15-horse simple traction engine steams very easily, seldom uses over two tanks of water a day, and is never out of order, always ready for service. I have pulled hills where others can't go, and consider it as powerful as other 20-horse engines."—WILLIAM D. TROUTER, Pittsfield, Ill.

SPECIFICATIONS

Built with simple or compounded cylinders; wood and coal, or straw-burner boilers.

BOILER BARREL—28 inches in diameter.

FIRE-BOX—Length, 39½ inches; width, 25½ inches; height, 35½ inches.

TUBES—Number, 36, 2-inch diameter, 84½ inches long.

HEATING SURFACE OF BOILER—169.3 square feet.

GRATE AREA—7 square feet.

STEAM PRESSURE—130 pounds per square inch.

FLY-WHEEL—40-inch diameter; face, 12 inches; speed, 250 R. P. M.

FRONT WHEELS—Height, 42 inches; tires, 10 inches wide regular. On special order 12-inch.

TRACTION WHEELS—Height, 5 feet; tires, 18 inches wide regular. On special order 20- and 24-inch.

SPEED—Miles per hour, 2.62.

EXTREME WIDTH of engine with 18-inch tires is 7 feet 9 inches.

HEIGHT, to top of stack, 9 feet 8½ inches.

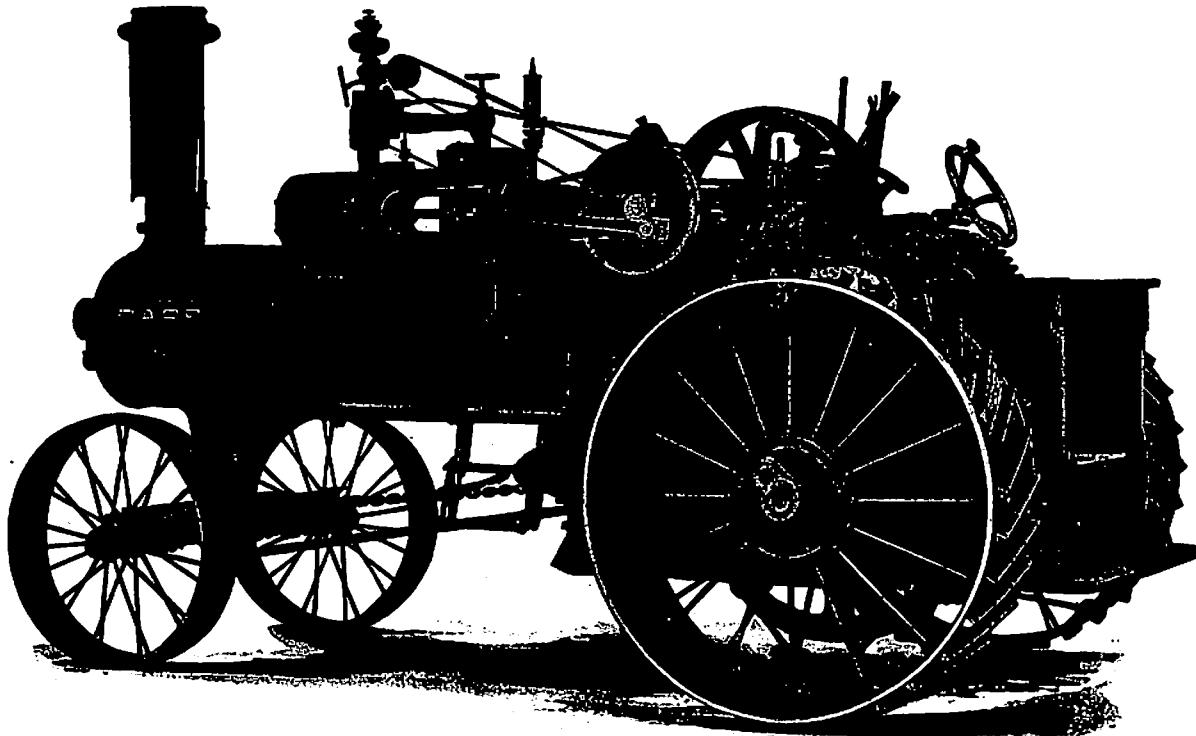
DISTANCE between axles, 10 feet 6 inches.

WEIGHT, with the boiler empty, 14,206 pounds.

EXTRA ATTACHMENTS furnished on special order: Jacketed boiler if coal burner, contractor's fuel bunkers, winding drum, friction foot brake, long or short canopy, headlight.

Prices Quoted on Pages 61, 62 and 63.

J.I. Case Threshing Machine Company



10 x 10-Inch Cylinder Simple Traction Engine

Rated 20-Horse—Develops 60 Brake (Stationary) Horse-Power

Our 20-horse engine is the one in more general use than any other size or make of traction engine. Parties desiring an engine of about this rating should send for our General Purpose Engine catalog, which gives a wide range of uses, such as grading, rock crushing, pulling stumps, hauling lumber, saw-milling and well-drilling. Contractors especially are asked to give this engine consideration.

"The CASE 20-horse traction engine gives entire satisfaction on the road and in the belt and steams easier than any other engine of six makes that I have used. We use our engine on the 50-inch saw-mill and have cut 8,000 feet of hard, knotty maple and beech per day, and never lack for steam and power."—H. F. SMITH, Geneva, Ohio.

SPECIFICATIONS

Built with simple or compounded cylinders. Furnished as coal and wood, or straw burner.

BOILER BARREL—30½ inches in diameter.

FIRE-BOX—Length, 42 inches; width, 27 inches; height, 35¼ inches.

TUBES—Number, 47, 2-inch diameter, 90 inches long.

HEATING SURFACE of boiler, 225.2 square feet.

GRATE AREA—7.88 square feet.

STEAM PRESSURE—130 pounds per square inch.

FLY-WHEEL—40-inch diameter; face, 12 inches; speed, 250 R. P. M.

FRONT WHEELS—Height, 44 inches; tires, 10 inches wide regular. On special order 12 and 14-inch.

TRACTION WHEELS—Height, 5 feet 6 inches; tires, 20 inches wide regular. 12-inch extension rims at extra price.

SPEED—Miles per hour, 2.61.

EXTREME WIDTH of engine with 20-inch tires is 8 feet 2½ inches.

HEIGHT, to top of stack, 9 feet 11½ inches.

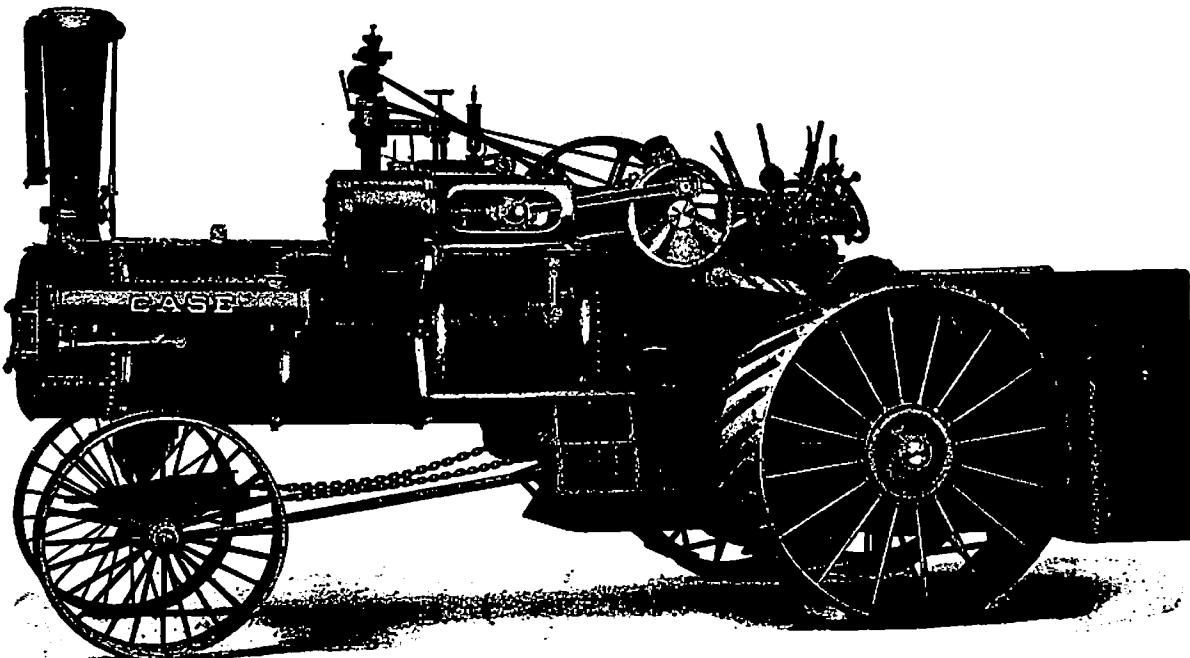
DISTANCE between axles, 11 feet 1½ inches.

WEIGHT, with boiler empty, 15,823 pounds.

SPECIAL ATTACHMENTS at extra price: Jacketed boiler if coal burner, contractor's fuel bunkers, winding drum, friction foot brake, long or short canopy, head-light.

Prices Quoted on Pages 61, 62 and 63.

Racine, Wis. U.S.A.



11 x 11-Inch Cylinder Simple Traction Engine

Equipped with Contractor's Fuel Bunkers

Rated 25-Horse—Develops 75 Brake (Stationary) Horse-Power

This engine is sufficiently powerful to operate the largest size separators and is the one generally used in the sections where big threshing is done. It gives its maximum of power when fired with straw as well as with coal or wood, the same as with all our straw-burning engines. It is also very generally used for freighting, grading and particularly for plowing. No 25-horse engine has been used as extensively or accomplished as much in a day or for a long period as a plowing engine. Send for our "Plowing With Steam Engine" catalog, which will be sent on request.

"The CASE 25-horse simple traction engine is a wonder. We have been obliged to move over very rough roads, including ravines and hills, and have not come in contact with a hill that the engine could not climb nor met a ravine that it could not go through."—KARR & McGREGOR, Windigate, Manitoba, Canada.

SPECIFICATIONS

Built with simple or compounded cylinders. Furnished as coal and wood, or straw burner.

BOILER BARREL—34 inches in diameter.

FIRE-BOX—Length, 44 inches; width, 31 inches; height, 36 $\frac{1}{4}$ inches.

TUBES—Number, 60, 2-inch diameter, 96 $\frac{1}{2}$ inches long.

HEATING SURFACE of boiler, 296.5 square feet.

GRATE AREA—Coal and wood burner, 9.47 square feet.

STEAM PRESSURE—130 pounds per square inch.

FLY-WHEEL—40-inch diameter; face, 12 inches; speed, 250 R. P. M.

FRONT WHEELS—Height, 44 inches; tires, 12 inches wide regular. On special order 16-inch.

TRACTION WHEELS—Height, 5 feet 6 inches; tires, 24 inches wide; 12-inch extension rims at extra price.

TRACTION SPEED—Miles per hour, 2.5.

EXTREME WIDTH of engine with 24-inch tires is 9 feet 4 inches.

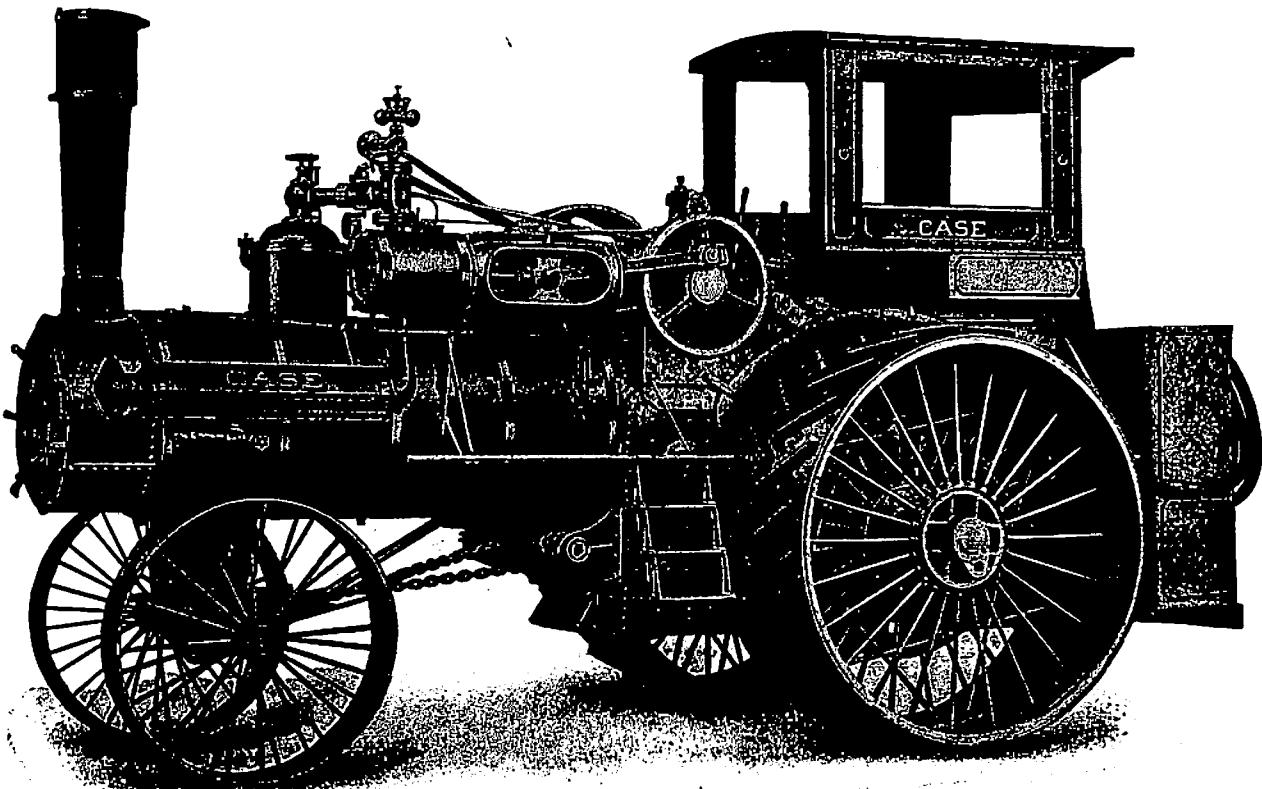
HEIGHT, to top of stack, 10 feet 1 inch.

DISTANCE between axles, 11 feet 10 $\frac{1}{2}$ inches.

WEIGHT, with the boiler empty, and contractor's fuel bunkers, 20,368 pounds.

SPECIAL ATTACHMENTS at extra price: Jacketed boiler if coal burner, contractor's fuel bunkers, winding drum, long or short canopy, friction foot brake, head-light.

Prices Quoted on Pages 61, 62 and 63.



12 x 12-Inch Cylinder Simple Traction Engine

Rated 32-Horse—Develops 110 Brake (Stationary) Horse-Power

This Engine is especially adapted for freighting and plowing, having exceptionally large coal and water capacity. It is designed for power, strength and durability. The boiler is triple riveted and will carry 160 lbs. steam pressure. It is tested at 250 lbs. cold water pressure. The drive wheels are reinforced and otherwise built for exceptional strength. It has friction steering mechanism, geared pump and single speed regularly. Double speed will be furnished at extra cost. It has exceptionally large heating capacity, including large fire-box, fitted with rocking grates. It is equally efficient as a coal, wood or straw burner. This is the best proportioned, most complete and most powerful Traction Engine built. For further information send for our "Plowing With Steam Engine" catalog, which will be sent on request.

SPECIFICATIONS

BOILER—Four long stays running full length of boiler.
Stay bolts, 1-inch diameter.

BOILER BARREL—38 inches in diameter.

FIRE-BOX—Length, 49 $\frac{1}{4}$ in.; width, 35 $\frac{1}{4}$ in.; height, 41 in.

TUBES—Number, 78, 2-inch diameter, 8 feet 4 inches long.

HEATING SURFACE of boiler. 402.5 square feet.

GRATE AREA—12.06 square feet.

PRESSURE—160 pounds per square inch.

FLY-WHEEL—Diameter, 43 $\frac{1}{2}$ in.; face, 16 in.; 230 R. P. M.

FRONT WHEELS—Height, 53 inches; tires, 14 inches wide regular or 20-inch special.

TRACTION WHEELS—Height, 7 feet; 36-inch tires. 12-in. extension rims will be furnished at extra price.

TRACTION SPEED—Single speed, 2.37 miles per hour; double speed slow, same as single; fast, 4.85 miles an hour.

EXTREME WIDTH of Engine with 36-inch tires is 10 feet 8 $\frac{1}{4}$ inches; length, 22 feet 5 inches.

HEIGHT to top of stack, 10 feet 5 inches.

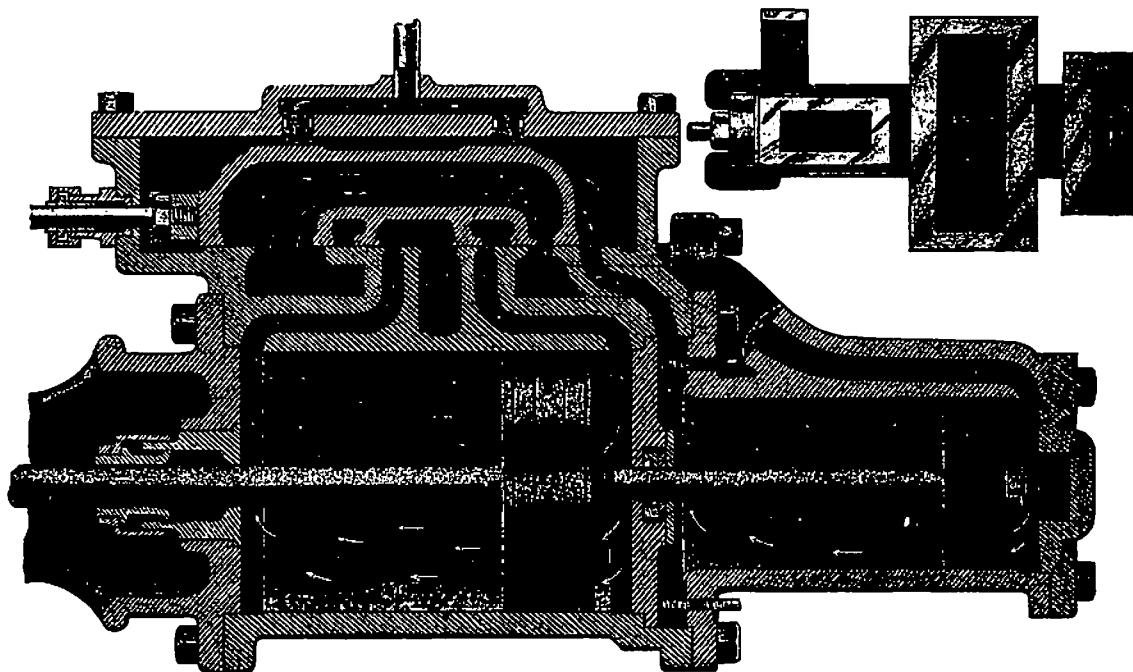
DISTANCE between axles, 12 feet 2 inches.

WEIGHT, with boiler empty, 32,600 pounds.

Built regularly with Simple Cylinder Engine and contractor's fuel bunkers, and jacketed boiler as coal, wood or straw burner.

SPECIAL ATTACHMENTS—Locomotive cab.

Prices Quoted on Pages 61, 62 and 63.



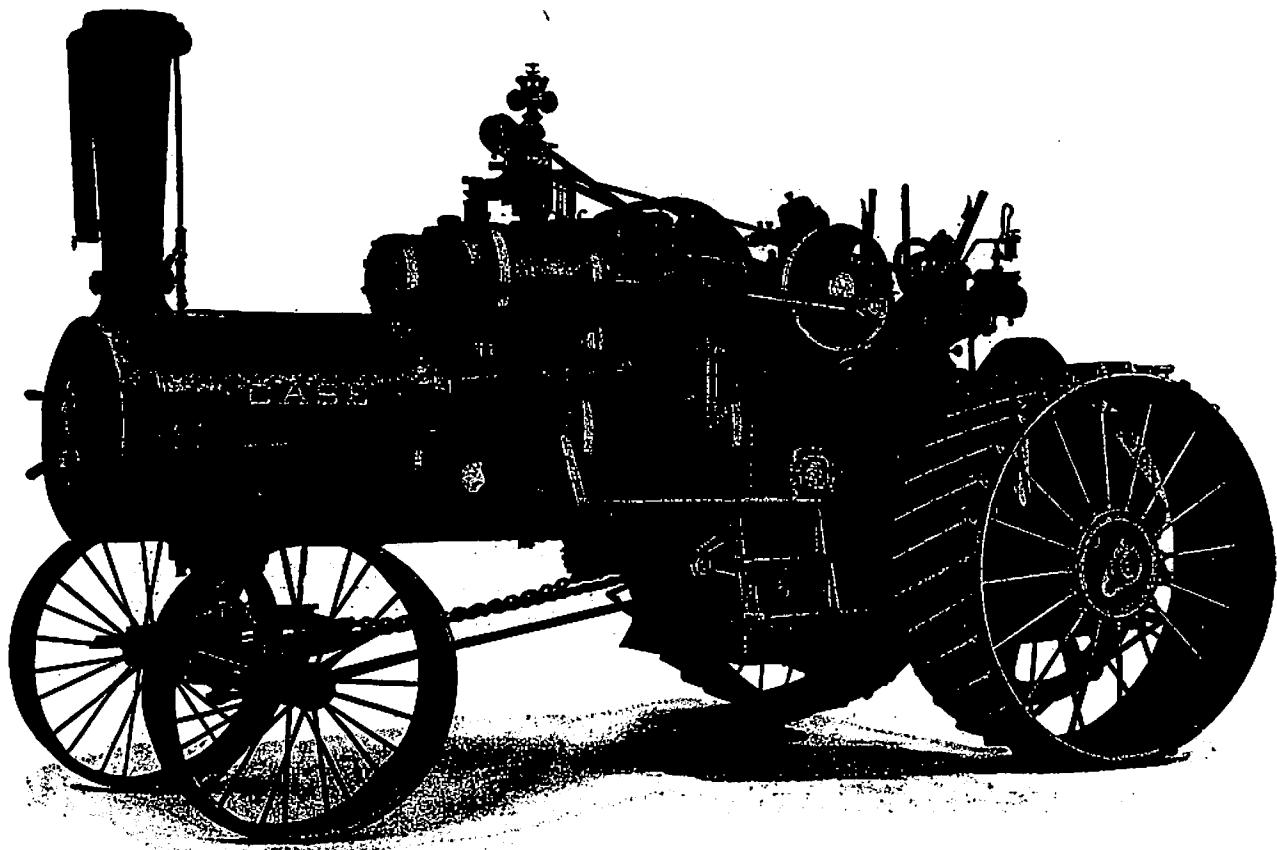
Compounded Cylinder and Valve, Internal View

In the CASE Compounded Engine all the advantages obtainable are derived from double expansion of steam. Cylinder condensation is lessened and the maximum economy is realized with the simplest possible mechanism. The gain in power will depend on the conditions under which the comparison is made. The gain is not, however, dependent on the use of excessively high pressure steam, for we use the same steam pressure (130 pounds) in our compounded cylinders as in our "simples."

Our "Compounded" Engine has the least possible number of parts. There are no more stuffing boxes to look after than on the simple. The internal arrangement of valve and cylinders, with their steam passages, is clearly shown in the above cut. The construction of the cylinders is such that a single head or partition between them serves for both. Where the piston rod passes through this partition exceedingly durable and self-adjusting metallic packing is used. The steam chest is not a receptacle for steam from the boiler, but receives the exhaust from the small cylinder for distribution.

The Valve is a single casting and performs all valve functions for both cylinders. In setting it the central section pertaining to the large cylinder is treated as if it were on a simple cylinder and adjusted accordingly. The valve is held to its seat when the engine is running down hill, or without a load, by plunger pistons located in the steam chest cover. The high pressure steam, entering from the valve seat, has access to a limited area on the face of the valve. This counteracts or relieves the pressure of the steam on its back; so when the engine is working the valve is admirably balanced without the addition of a single piece or complication of any sort.

Prices Quoted on Pages 61, 62 and 63.



9½ x 13 x 11-Inch Compounded Cylinder Traction Engine

Left Side, Jacketed Boiler. Rated 25 Horse-Power

All the advantages of compounding farm Traction or Portable Engines carrying medium-high steam pressure are realized in the engine illustrated above. In some sections and for some lines of work, the "compounded" has a slight advantage over the "simple." As is true in other directions, there are material differences in the construction of "compounds," and a divergence in the character of results. Those preferring a "compounded" will get the most successful if they buy the CASE. We furnish them either as portables or tractions in the 9, 12, 15, 20 and 25-horse sizes. They have the same equipment and can be fitted with the same special attachments as the "simples."

"Have used the CASE 25-horse compounded engine and have plowed 400 acres in ten and one-half days. The engine is a fast traveler and good puller in the belt."—SUSANK BROS., Hoisington, Kansas.

"The CASE 15-horse compounded traction engine has been very satisfactory. The boiler is an easy steamer and furnishes ample steam for engine.—MACK BROS., Newport, Arkansas.

"The CASE 25-horse compounded traction engine is a very easy steamer, and has more power, either on the belt or traction, than any other that I have ever seen."—H. HERRON, Bowsman, Manitoba, Canada.

"Our outfit consists of a CASE 25-horse compounded traction engine, fitted with wheels and contractor's fuel bunker for plowing, 36-58-inch steel separator, wind stacker, feeder and No. 2 weigher. The rig has given good satisfaction in every respect. Engine is very powerful and easy to operate. Up to date we have run twenty days with a lot of windy and damp days and have threshed 41,278 bushels."—WILLIAM H. McCALL & SONS, Kronau, Saskatchewan, Canada.

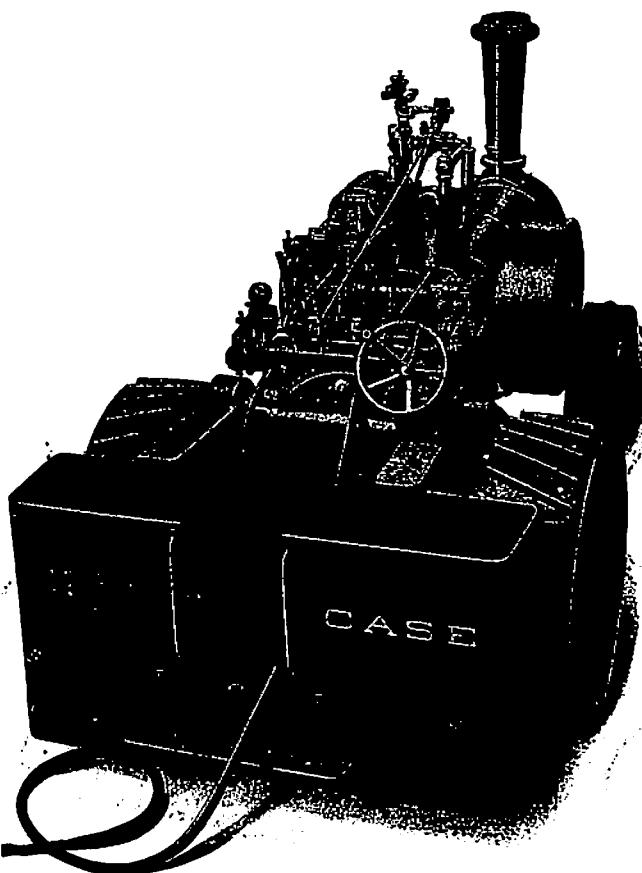
Prices Quoted on Pages 61, 62 and 63.

Racine, Wis. U.S.A.

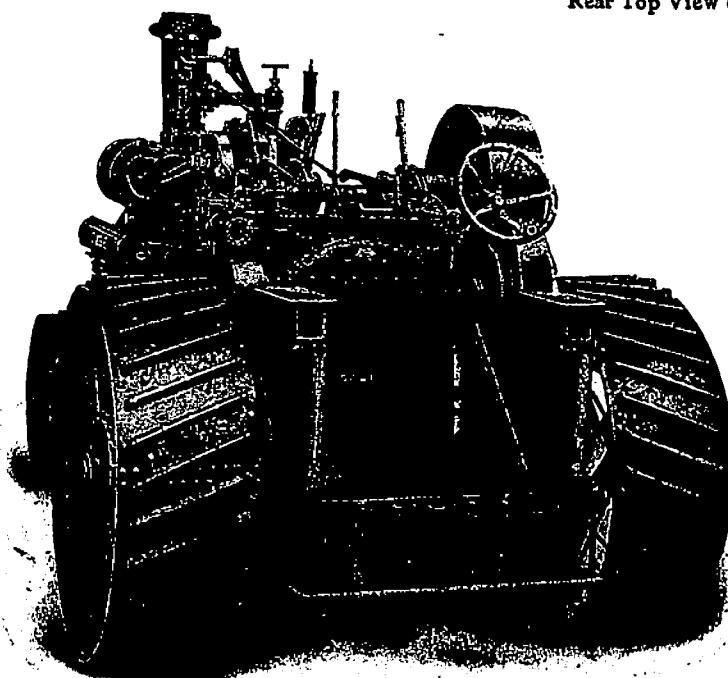
"Am more than pleased with the CASE engine. Like the way the engine is built, also like the contractor's fuel bunker arrangement first rate. The engine is an easy steamer and a wonderful hill climber. I can go almost any place without uncoupling the separator; also like the way it is geared. The gearing has stood this rough, hilly country better than any other gearing I ever saw. Have not put any repairs on the engine at all. It is a good plowing and saw mill engine."—WALTER HANSON, Spearfish, South Dakota.

"Own a CASE 20 horse-power engine and 36-58-inch separator. Engine is equipped with contractor's fuel bunker and have found that your machinery is all that it is claimed to be. Your engine is noted for its easy steaming qualities. It is unequalled for hill climbing and their simplicity makes them easy to be kept up in good running order, without expense, and the gearing is strong which makes it one of the handiest engines built, as most of the machinery is within easy reach of the operator, and the contractor's fuel bunker is one of the handiest attachments that can be put on an engine."—HENRY BIEHL, York, Nebraska.

"The CASE 15-horse engine gives perfect satisfaction as a thresher and saw mill engine. It is the strongest engine to the rated horse-power I ever saw and would not use any other."—L. N. HUNT & SONS, Scottsville, Kentucky.



Rear Top View of CASE Traction Engine, Fitted with Contractor's Fuel Bunkers.



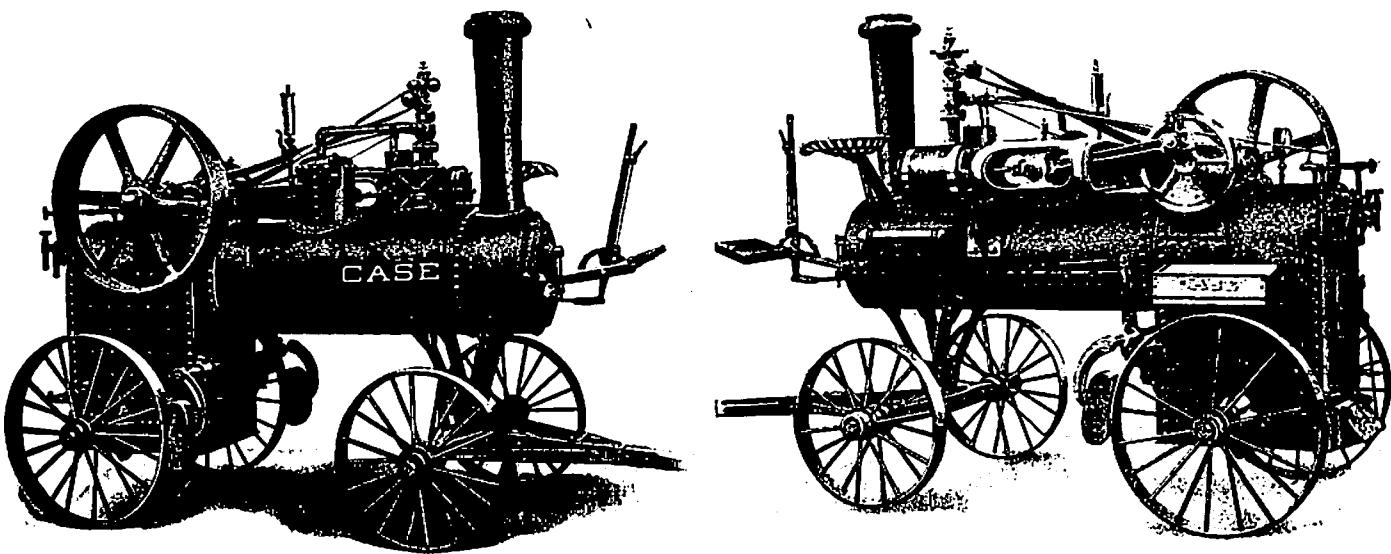
Rear View of CASE Traction Engine, Fitted with Regular Platform and Water Tank.

"Have purchased one of your CASE 15-horse engines and also 32-54-inch separator, and can say that it is an excellent rig to handle. The engine is an easy steamer and it is the best constructed engine, either under the belt or on the road, climbing over these hills. The gears will stand all kinds of strain without breaking, on account of having the best differential gear. The CASE steel machine is the easiest running machine in this country, and is a grain cleaner and saver. Have run my machine for about thirty days without clogging it up, either on wet or dry grain."—V. JANSA & SON, Valparaiso, Nebraska.

"After running the CASE 25-horse simple traction engine the full season, wish to state that we are thoroughly satisfied with same. It gives abundance of power in the belt and is simple in construction, and built to last, and is an easy steamer and economical with fuel and water. Previous to this season we operated two other engines of different manufacture, but like the CASE better than any other."—JOHN MCGILLIVARY, JAMES SMITH, Pense, Saskatchewan, Canada.

Prices Quoted on Pages 61, 62 and 63.

J.I. Case Threshing Machine Company



6 x 8-Inch Cylinder Simple Portable Engine

Rated 6-Horse—Develops 18 Brake (Stationary) Horse-Power

This is the smallest engine we build and is designed for use with our small separators for driving wood saws, feed grinders, pumps, corn shellers, hay balers, in fact, for all manner of stationary and portable power purposes. The large fire-box adapts it for any kind of waste fuel so that the expense of operation need hardly be estimated. The engine is simple and safe, and all parts are easily reached from the ground.

"The CASE 6-horse portable engine has given the best of satisfaction in every respect. Have been running a combined oat and rye thresher which requires fully 8 horse-power to operate, but the CASE 6-horse portable did the work without any trouble."—G. N. LOBDELL, Brewster, New York.

"The CASE 6-horse portable engine is the nicest steamer, using less coal and water than any we have ever used. It gives an abundance of power."—C. S. TRAVIS, New Martinsville, W. Virginia.

"We have run our hay press with engines of nine different makes from 12 to 16 horse-power, but the CASE 6-horse engine runs it with less fuel and water than any other."—W. E. SMITH, Platea, Pennsylvania.

SPECIFICATIONS

Built only with simple cylinder as a portable engine. Coal and wood burner only.

BOILER BARREL—22 inches in diameter.

FIRE-BOX—Length, 26 inches; width, 20 inches; height, 30 $\frac{1}{4}$ inches.

TUBES—Number, 30; 1 $\frac{3}{4}$ -inch diameter, 54 inches long.

HEATING SURFACE of boiler, 83.5 square feet.

GRATE AREA—3.6 square feet.

STEAM PRESSURE—130 pounds per square inch.

FLY-WHEEL—36-inch diameter; face, 7 inches; speed, 250 R. P. M.

FRONT WHEELS—30-inch diameter; tires, 4 inches wide.

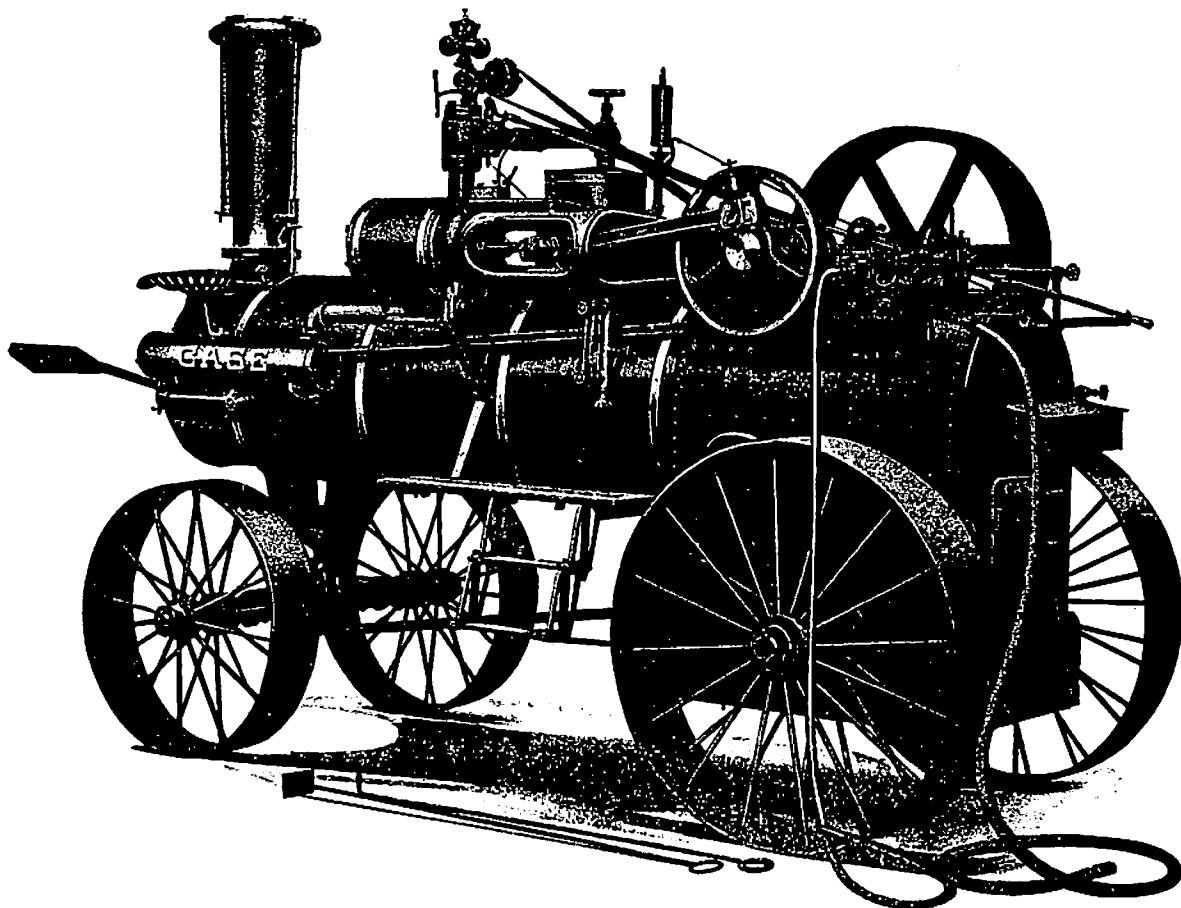
REAR WHEELS—36-inch diameter; tires, 4 inches wide.

WEIGHT, with boiler empty, 4,345 pounds.

HEIGHT, to top of stack, 7 feet 8 $\frac{1}{2}$ inches.

THE BRAKE has sufficient power to control the engine on steep grades. It is included only when ordered at extra price. Feed-water heater and steam pump are omitted. Two injectors are furnished.

Prices Quoted on Pages 61, 62 and 63.



10 x 10-Inch Cylinder Simple Portable Engine

Rated 20-Horse—Develops 60 Brake (Stationary) Horse-Power

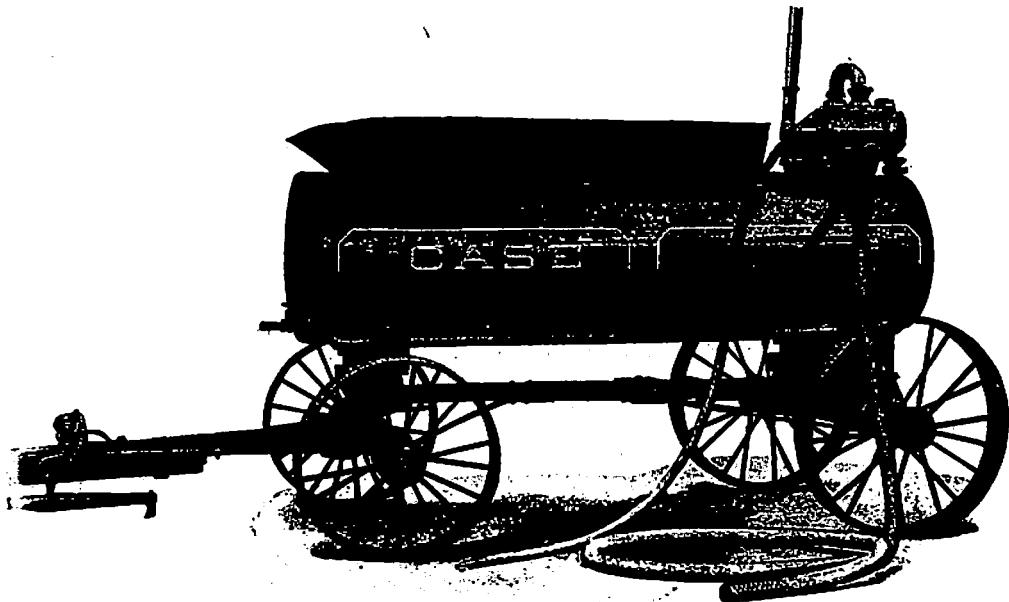
The illustration on this page is typical of our entire line of Portable Engines from the 9-horse to the 25-horse-power sizes. They are built along the same symmetrical lines as the CASE Traction, have the same type of boiler, engine frame, cylinder, connecting rod, crank-shaft and disc, fly-wheel, heater. It has the same pump, injector, brasses and fittings.

The rear end is supported by steel-axle arms which are held by strong brackets bolted to the side sheets of the boiler. The axle arms have long bearings in the hubs of extra large wheels. The latter are our regular steel rim and spoke type with smooth tires and sufficiently large to insure easy draft.

All sizes above 9-horse can be fitted with our straw-burning attachment, including jacketed boiler, at an extra cost of \$50.00. Brakes for all sizes are furnished, but only on special order at an extra price of \$10.00.

Our Portable Engines, with good care, will last a life-time, and at the prices we now quote on them they furnish the most economical and reliable power that can be obtained.

Prices Quoted on Pages 61, 62 and 63.



Mounted Tank, Pump and Hose

On this page we show our improved Mounted Steel Water Tank. This is the best Tank on the market, and the recent improvements make it more desirable than ever.

The Fuel-Hopper is of ample size and at the same time leaves room at the back for the tank-pump and man-hole. The hopper sides are steel with three braces on each side. These braces are securely riveted to the Tank and their lower ends are curved upward to make a convenient carrying-place for the Suction Hose on one side and the slip tongue, etc., on the other, when the Tank is coupled to the Engine. The hopper will carry a large supply of fuel, while the scoop front makes it easy for the engineer to reach the coal from the Engine platform.

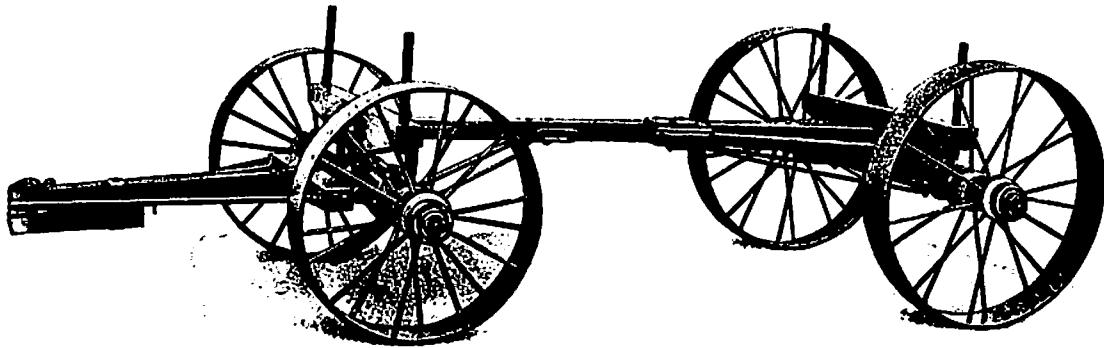
A straw rack, which will attach to the hopper, will be furnished on special order at extra price where straw is to be used as fuel.

The water capacity is twelve barrels or 384 gallons. Gauge number twelve sheet steel is used for the entire Tank, which is heavy enough to insure long life. Steel splash plates are riveted inside to prevent the water from rushing from end to end in starting, or in passing over rough roads.

The CASE Tank Pump has a capacity of two barrels a minute, is easily worked by one man, and is the best all-around Force Pump sold. The price of the Tank does not include the Pump and Hose, which is furnished at extra price. The Hose consists of twenty feet of Suction Hose with strainer, and ten feet of 1-inch Discharge Hose with nozzle and couplings.

We are prepared to furnish a sprinkling attachment for use on the CASE Tank. Information concerning it will be gladly furnished on request.

Prices Quoted on Pages 61, 62 and 63.



Steel Wheel Trucks for Tank and Farm Wagon

The CASE Steel Wheel Trucks, while primarily designed for use with the water tank, are also intended to be used separately and will take the regular farm wagon box.

The wheels have steel tires 6 inches wide and $\frac{1}{16}$ inches thick, twenty $\frac{5}{8}$ -inch steel, staggered spokes in each, with heads countersunk in the rims, affording a smooth surface that greatly facilitates draft. The front wheels are 30-inch diameter and the rear ones 36-inch, making an easy-running wagon of great carrying capacity. The hubs have a 12-inch skein-bearing surface.

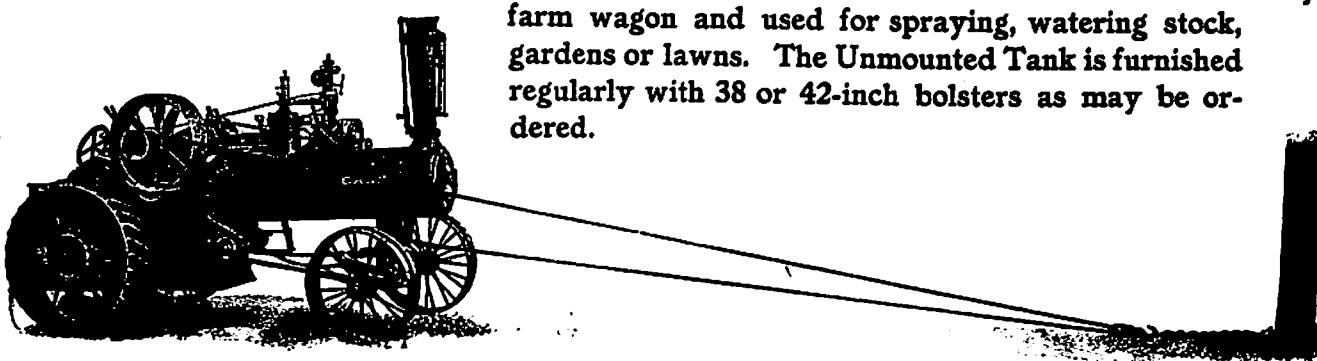
As before stated, the regular farm wagon box can be used on these Trucks, and a top platform can easily be made by any farmer for hauling bundle grain, fodder, manure and all kinds of trucking about the farm, where wide-tired wagons are desirable. In some states a remission of taxes is allowed to farmers using wide-tire wagons for hauling on the highways—a strong inducement for their use.

The Reach is arranged for coupling to the separator tongue and transmits the pull direct from front axle. Doubletrees and neckyoke and spliced tongue go with each set of trucks.

Tanks will be Sold Separate from Trucks

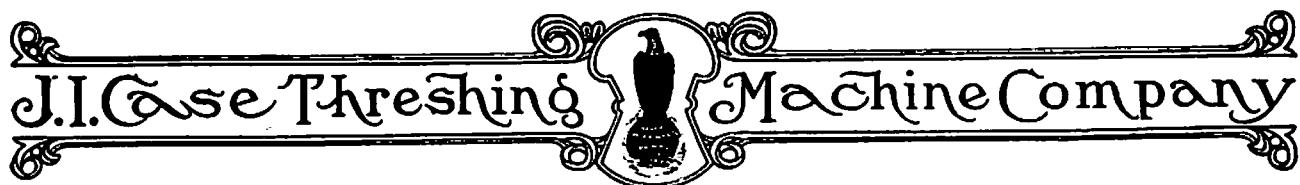
We sell the Tank without the trucks and it is then known as the CASE 12-barrel Un-mounted Tank.

The Tanks are so made they can be lifted from the trucks and set on the ordinary farm wagon and used for spraying, watering stock, gardens or lawns. The Unmounted Tank is furnished regularly with 38 or 42-inch bolsters as may be ordered.

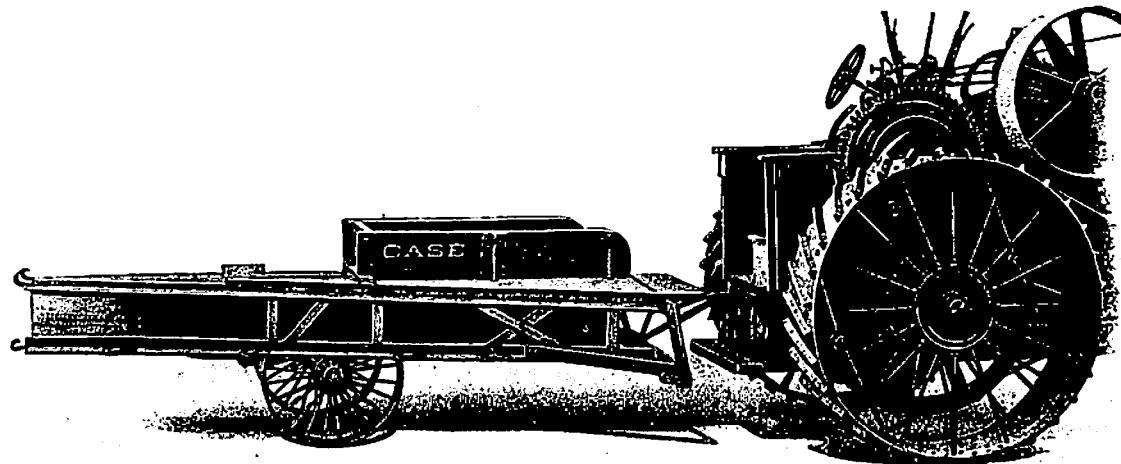


Winding Spool for Traction Engine

Prices Quoted on Pages 61, 62 and 63.



Steam-Plow Attachment



Coupled to 25 Horse-Power Engine

This Attachment has been designed for use with CASE Traction Engines, 20 or 25-horse sizes, has been on the market for many years and is a demonstrated success.

The Tank has a capacity of eight barrels in addition to Tank underneath engine platform. The Coal Bunker holds about a ton of coal. To plow with the greatest economy the rig should be kept in continuous operation from ten to twelve hours daily. Our Attachment, with its large fuel and water capacity, makes this entirely feasible.

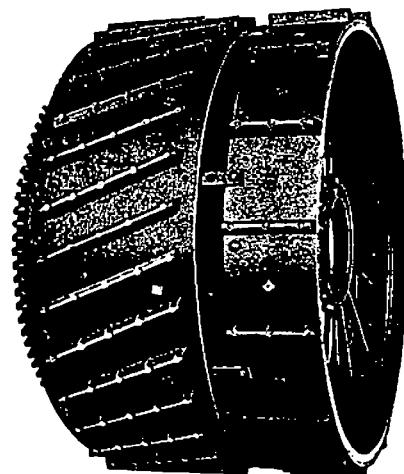
The Truck Wheels of the tender are 34-inch diameter and 10-inch face. They are centrally located and the whole structure is evenly balanced on the axle. Such an arrangement eliminates all strain in passing over rough, uneven ground. Corners can be turned with precision, and handling of the Engine is in no way interfered with.

Either disc or moldboard plows can be used with our Attachment, and may be in two, three, four, five or six-plow gangs.

We publish a special catalog on the subject "Plowing With Steam Engine" which will be sent free upon request.

Extension Rims for Traction Wheels

For plowing or for use in any locality where the ground is soft or spongy, we are prepared to furnish 12-inch extension rims for our 20, 25 and 32 H.-P. Traction Engines. These are built in the same manner and of the same material as our regular traction-wheels and are attachable or detachable in a very short space of time.

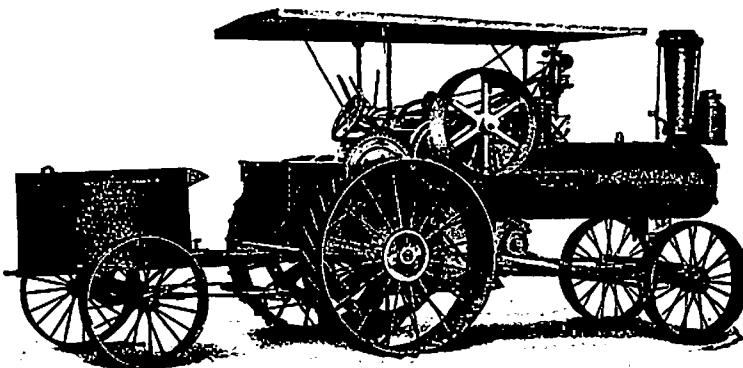


Traction Wheel and Extension Rim.

Prices Quoted on Pages 61, 62 and 63.

Engine with Tender and Canopy

This engraving shows our 20-horse Traction Engine, right side, with two-wheel Tender and Canopy attached. The Tender is fully described below. Canopies are furnished for 12, 15, 20 and 25-horse Engines in nine or twelve feet lengths, six feet in width. Only one size is furnished for the 9-horse Engine, which is eleven feet in length. The canopy is a protection to the operator and to the working parts of the Engine.



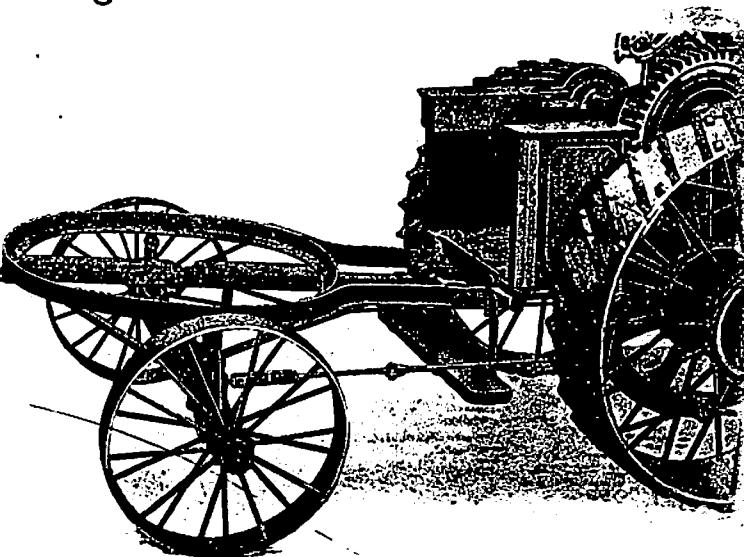
We can supply at an extra price one of the Ham Head-lights, as shown in front of the smoke stack.

We will also equip our Traction Engines, on special order, at an extra price, with a CASE Acetylene Search-light.

Steel Engine Tender

The CASE Tender is very convenient on the road and readily guides with the Engine either forward or backward. Capacity of the Tender is eight barrels of water and about a half ton of coal. If straw is to be used as fuel, a straw rack will be fitted on special order at extra price. The wheels have 8-inch tires and are furnished in three diameters 30, 34 and 42 inches, corresponding to different sizes of Engines.

Where the Tender is used the tank underneath Engine platform is unnecessary, and we make a special allowance for same, on orders for new Engines, if the tank is not desired by the purchaser.



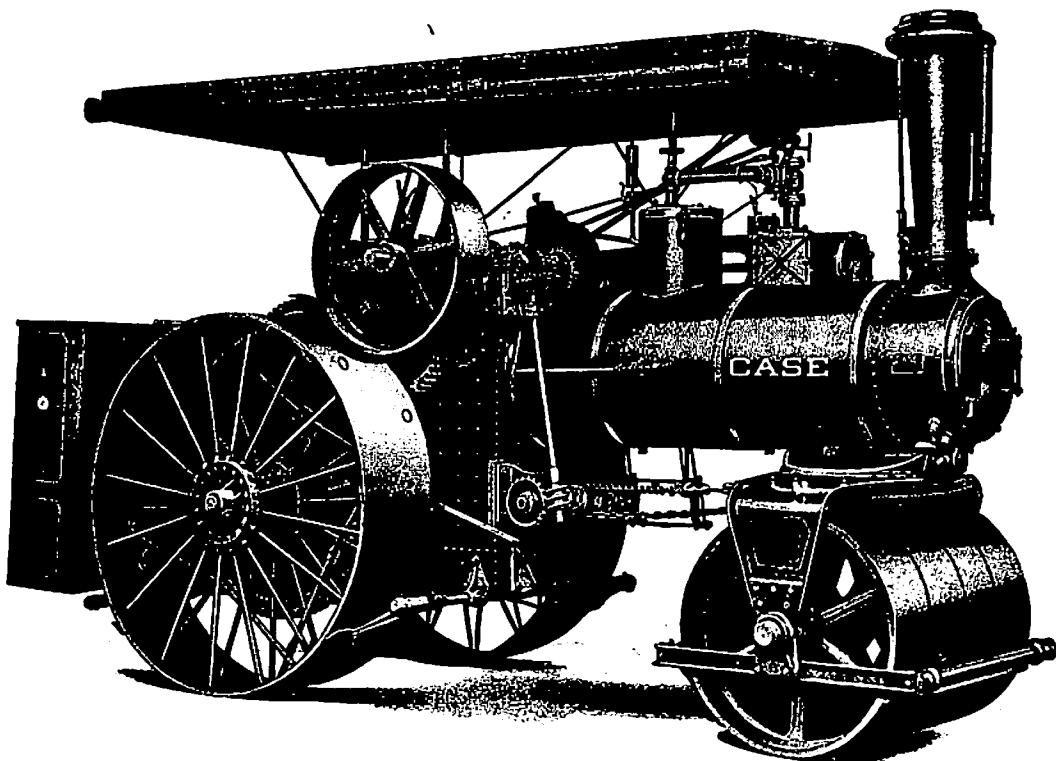
Tank Removed to Show Trucks, Frame and Coupling to Engine Platform.

"The CASE tender is a fine thing; pays for itself in one fall's run."—DEFRIES & LUTTERMANN, Melvin, Iowa.

"The CASE coal tender and tank are convenient, and you never need to wait for water. I would not be without a 2-wheel tender tank if I owned a dozen outfits."—GUS GEPAHRT, Route 5, Attica, Indiana.

"We have been using one of your CASE 20-horse traction engines for hauling, sawing and running planing mill. It gives us all the power we can use, both on the road and under the belt. As for hauling on the road, we have had quite a success, have not been able to load the engine. Have had four wagons of one-inch lumber behind it and did not have a load. It is not one-half the cost of hauling with teams. We are running four engines at present, and find the CASE the best for general use."—FARRIS MILLING Co., Cave City, Kentucky.

Prices Quoted on Pages 61, 62 and 63.



8 1/4 x 10-Inch Cylinder Ten-Ton Road Roller

Develops 36 Brake (Stationary) Horse-Power

Most Road Rollers now on the market have been copied by manufacturers in this country from the foreign type of slow moving tractions, designed to travel only straight forward and back, devoted to the exclusive work of rolling, and built for European trade and conditions.

As successful builders of the greatest number of Traction Engines we have for several years appreciated the increasing demand for an American, up-to-date roller, practical and capable of doing all the work required thoroughly and yet with dispatch.

Send for copy of our Road Roller Catalog which gives complete description of above roller.

ADVANTAGES

COMPACT AND SIMPLE in construction.
SHORT WHEEL-BASE allows short turning.
MOST ECONOMICAL in use of fuel and water.
STRONGER TRACTION POWER—Power applied to both drivers when traveling straight or in turning corners. Can be used for running rock crushers, pulling graders, grading plows, stone wagons, etc.
ROLLING SURFACE, 7 feet 1 inch wide.
A SPRING DIFFERENTIAL that saves the gears from sudden shocks and applies an equal amount of power to each of the drivers at all times whether running straight or turning corners.
TUBES can be cleaned with regular flue scraper in ten minutes' time.

FRICITION CLUTCH for gradual application of power.

FRICITION-STEERING MECHANISM (patented), that guides more rapidly than by hand and with but little exertion on the part of the operator.

FRONT ROLL can be turned when machine is standing still.

CONVERTIBLE INTO HAULING ENGINE, and as such can be used for hauling purposes.

LARGE AND HEAVY FLY-WHEEL makes it advantageous for all kinds of stationary work.

GREATER FUEL AND WATER CAPACITY than others.

Prices Quoted on Pages 61, 62 and 63.



THE extraordinary success of CASE big cylinder Separators is only equalled by the exceptional demand for the CASE Steel Separators. We have been installing new machinery and equipment for some time and are now in a position to fill all orders promptly. Threshermen cannot afford to buy wood machines when it is possible to buy a fire and weather-proof steel machine.

Being fire-proof, threshermen are free from the risk on wood machines and insurance is unnecessary. We have had several machines go through fires, and after a new set of belts and a few repairs were put on, the machine was running again after only a day's delay. Ordinarily it would take several days to replace a burned machine, which would mean the loss of a large part of the season's run.

Threshing machinery is subjected to more exposure and hard usage than any other, which accounts for its usually rapid deterioration. But the CASE Steel Separator is weather and water-proof as well as fire-proof.

The immense loss of threshing machinery, crops and farm property from fire is not thoroughly appreciated by farmers and threshermen. There are companies organized and making a special business of insuring threshing machinery. From their printed matter it is clearly evident they are carrying a large number of risks.

This indicates that the owner of a wood machine must carry ample insurance and pay excessive premiums to guard against loss. With a CASE Steel Separator, however, he can save the heavy premium expense, and be free from all risk as well as safeguarding the property of his customers.

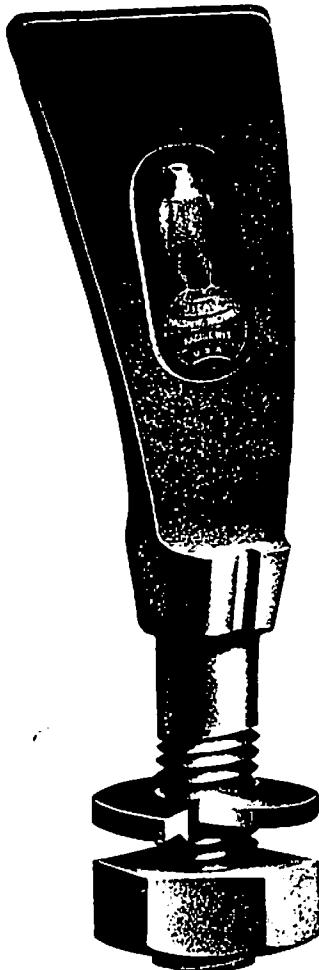
Our Separators give first-class results not only in all the varieties of wheat, oats, barley, rye, buckwheat and speltz, but, with our special equipment, in Honduras, Japan and golden varieties of rice, and in the various varieties of peas and beans. As a flaxseed thresher they give unbounded satisfaction all over the Northwest.

When equipped with the CASE Clover-Hulling Attachment they will do as good and more work than a regular Clover Huller in either the red, white or alsike varieties. In the West our customers thresh alfalfa, or lucerne seed, millet and brome grass satisfactorily. In Kentucky and elsewhere CASE machines have high favor as orchard-grass and timothy threshers. The smaller size Separators are successfully employed for threshing peanuts and in hulling garden seeds.

Prices Quoted on Pages 61, 62 and 63.

J.I. Case Threshing Machine Company

We publish special circulars covering the work of CASE Separators in alfalfa, pea, bean and clover hulling, timothy, orchard-grass, rice and peanut threshing. Those interested in these crops should send for circular, giving complete description.



Interchangeable, Annealed and Tempered Cylinder and Concave Tooth, Nut and Spring Washer

"Since you would like to know my experience with the CASE 25-horse Simple Traction Engine and 40-62-inch Steel Separator purchased this fall: Well, I have threshed for thirty-five years, have purchased different makes of rigs and have threshed with a CASE 15-horse compound engine and 40-62-inch separator, blower and feeder for ten years with very little expense, and thought it would be hard to get as good a rig again, but the one I have now is a 'hummer' from one end to the other; more than fulfills the warranty. I was told that the steel separator would make lots of noise and the bolts would shake loose, but that is a lie, as no bolts got loose whatever, and runs as quiet as a clock. Anyone who is going to purchase a rig will make no mistake in buying a CASE rig. It will outwear two or three other makes, I know, and I can prove it."—H. C. STYER, Mekinock, North Dakota.

"Purchased a CASE 25-horse traction engine, 40-62-inch steel separator, wind stacker, feeder and weigher, and can state that we have had very good success running the above rig. During the season's run we have not spent a cent on our steel separator for repairs. We had heard complaints before purchasing of bolts shaking loose in the separator, but can say that as far as our experience goes, this is not the case. During the season's run we booked approximately \$4,100."—KING & McCANN, Moose Jaw, Saskatchewan, Canada.

"As I have owned and run several of your outfits in the past twenty-five years and am running one of your 20-horse compounded engines and 40-62-inch steel separator now, can state that I have run through this season without spending one single cent for repairs, which I think is something of a record, and for a stretch of three solid weeks threshing, we did not stop a single minute on account of the machine or anything else. The steel constructed machine is certainly the only thing to buy and the talk about the rivets coming loose is all rot, as there are no loose rivets in my machine."—ALBERT Hoy, Hitchcock, South Dakota.

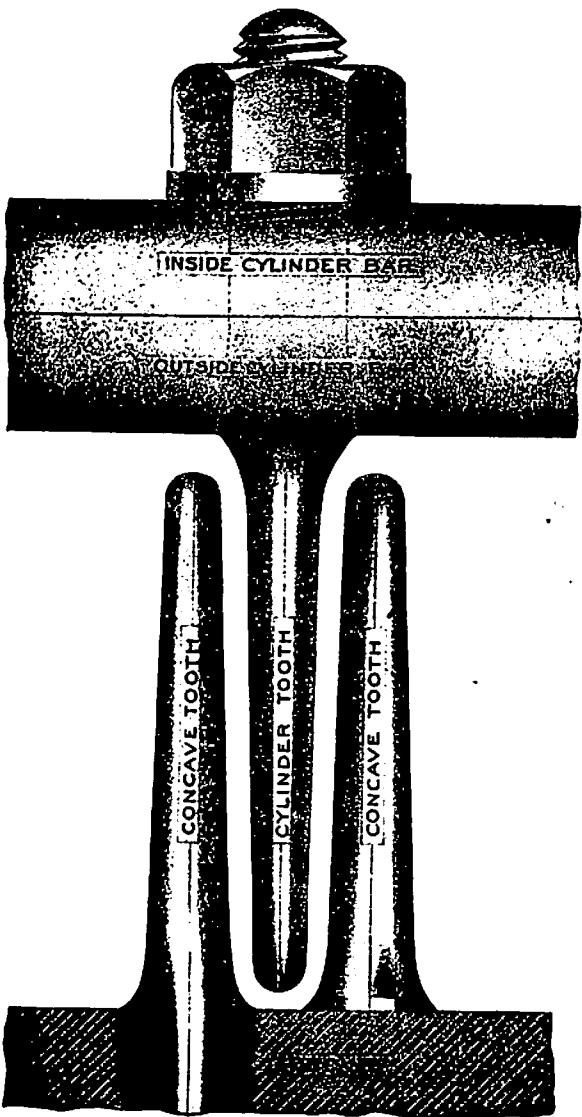
Prices Quoted on Pages 61, 62 and 63.



Cylinder Teeth

The matter of Cylinder Teeth is one that has had particular attention by our designers and mechanical experts. Innumerable laboratory experiments and "try outs" in the field have been made which have resulted in the adoption of the present interchangeable Cylinder

and Concave Teeth. They are made of special steel and are annealed and tempered after being formed. The size has been increased, metal has been added where most needed, much added strength has been put in at the shank where a tooth is most apt to break, giving ample strength without affecting in any way the qualities for fast and clean threshing, for which CASE Separators are famous. Threshermen will appreciate the advantage of having interchangeable Cylinder and Concave Teeth.

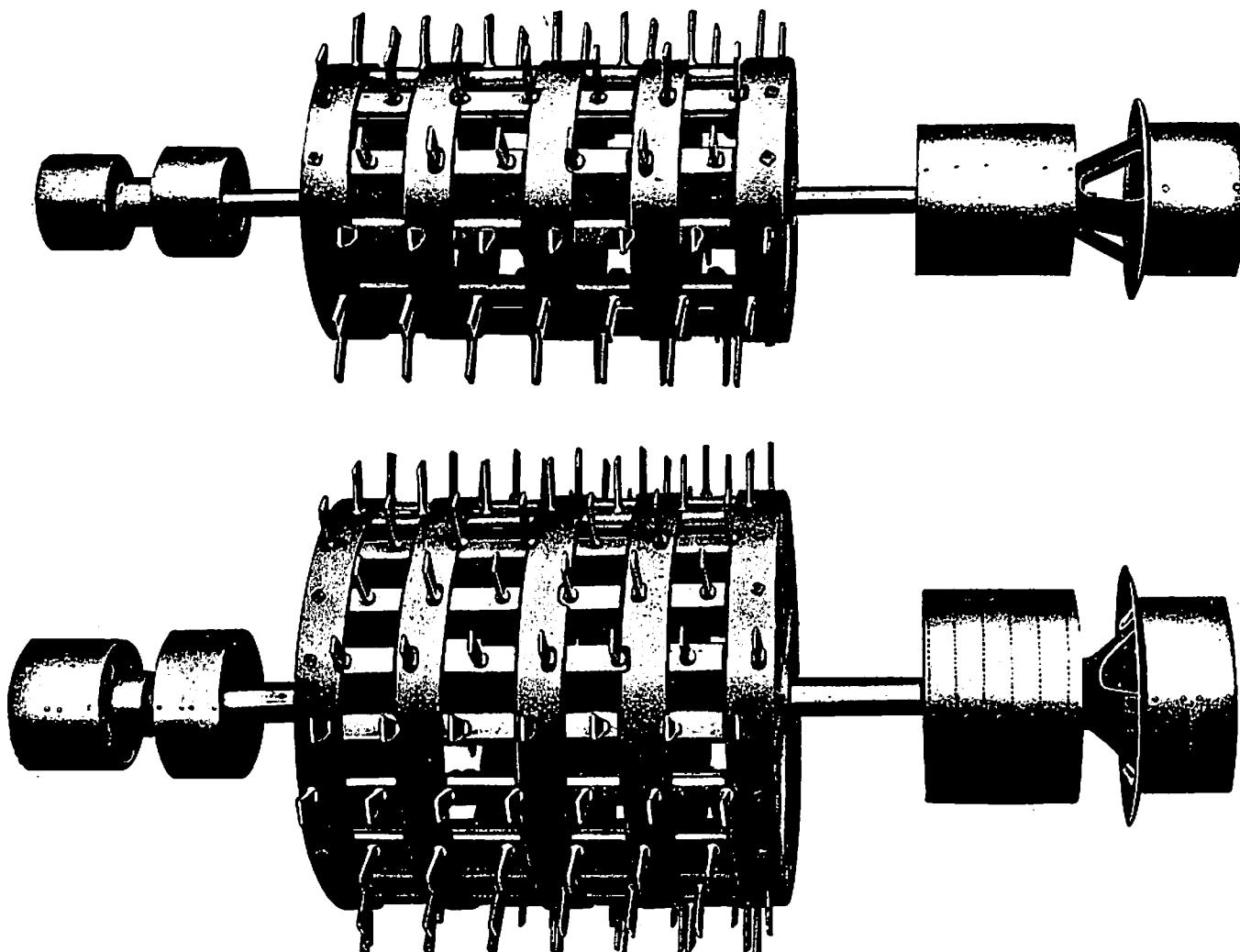
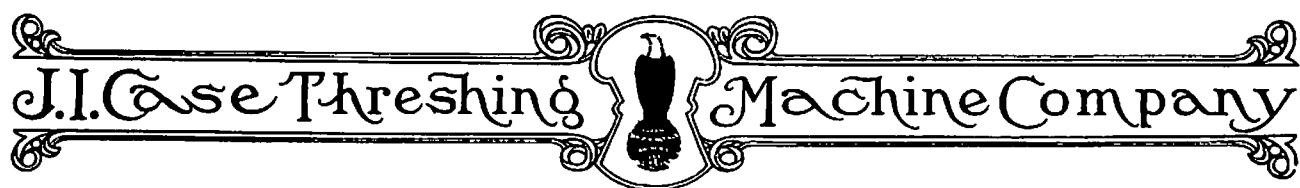


Cut Showing Spacing of Cylinder and Concave Teeth.

Pulleys for driving the windstacker, crank-shaft, fan and feeder also have larger diameters, and therefore much stronger driving power.

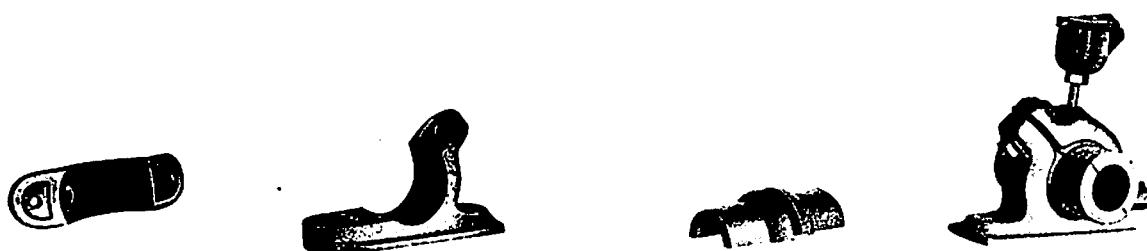
"This season we purchased one of your CASE 36-58 steel separators, steel wind stacker, steel feeder and weigher. We have just finished a very successful fall's threshing, making the run with no breakages nor trouble; the separator is certainly a good grain thresher, grain saver, and grain cleaner, and has done its work to the entire satisfaction of ourselves. We have made the entire run, and have only lost two teeth, and this was occasioned by running a pitchfork through the separator. We consider that the steel separator is a great protection against fire. Investigate the CASE steel machinery before buying."—
L. B. SHELSTAD, Brandt, South Dakota.

Prices Quoted on Pages 61, 62 and 63.



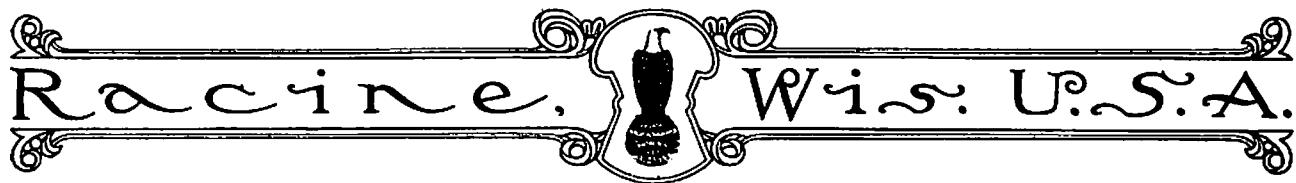
Twelve and Twenty-Bar Cylinders (and Pulleys) Compared

The Cylinder Shafts for all the large cylinder machines are steel, $2\frac{1}{2}$ inches in diameter. The regular pulley for the main drive belt is $13\frac{1}{2}$ inches in diameter. This affords 50 per cent. more contact surface for the belt, prevents slugging, thereby eliminating all slippage and the loss of power. Note width of bands and spacing of teeth.



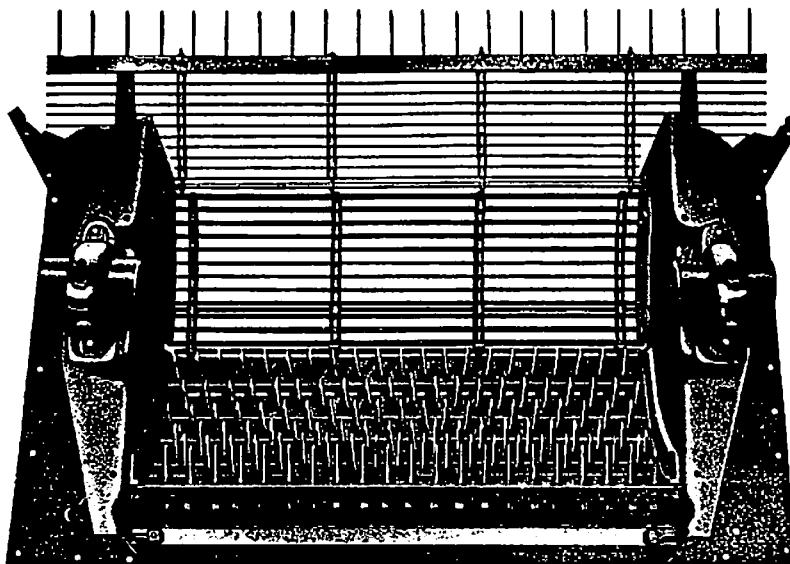
CASE Ball and Socket Pivoted Cylinder Boxes

Prices Quoted on Pages 61, 62 and 63.



In the cylinder and grate construction will be found some of the potent reasons why our machine has such a splendid record of large capacity and thorough separation. Fifty-inch rear and all larger size Separators are equipped with the 20-bar cylinders, having a diameter of thirty-two inches. With this increase in diameter the teeth travel at the same velocity, with a cylinder speed of only 750 revolutions per minute, as a 12-bar cylinder at 1100 revolutions.

Long ago we recognized that the greater part of grain separation should be accomplished under and immediately back of the cylinder—in short, more concave and grate surface was needed. The large cylinder made it possible to increase this surface in CASE machines to fifty-two inches, as indicated by the accompanying illustration.



Top View—Looking Down on the Concaves and Grates in a
CASE 20-Bar Cylinder Separator.
Note the Pressed Boiler Steel Sides.

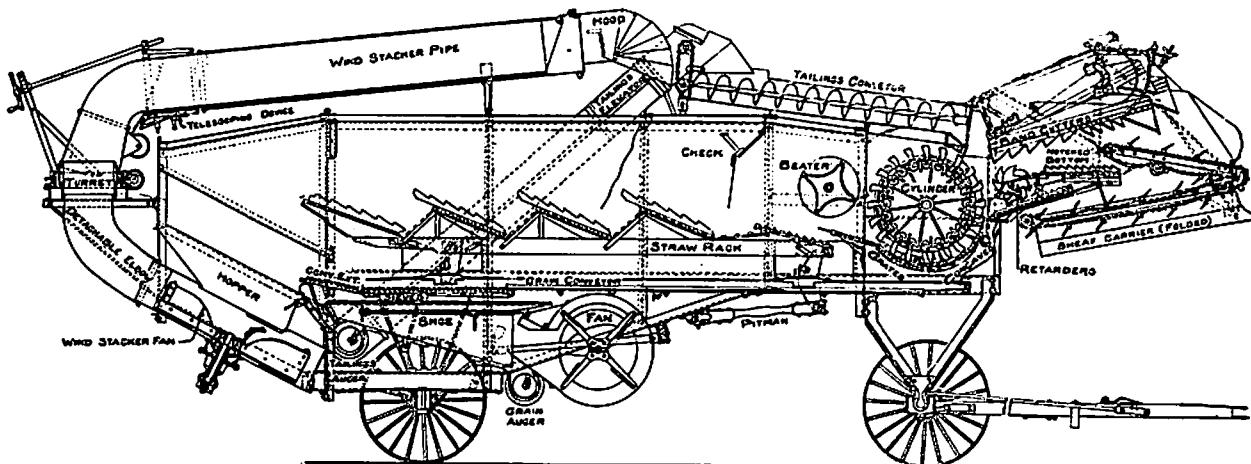
vibrations per minute and carries the straw to the rear in a thin layer, and with sufficient agitation to shake out the grain not separated at the cylinder.

The grain conveyor has a heavy galvanized iron bottom, well supported by longitudinal and cross strips to prevent sagging and consequent loading of grain in the center, which would result in imperfect cleaning on the sieves. It is driven direct from the crank-shaft through the pitmans and vibrating arms, which also impart motion to the straw rack. Each counterbalances the other by a carefully calculated difference in leverage of the vibrating arms.

This mechanism has been employed by us during many years and is one of the vital principles of construction that has given the CASE such a sweeping ascendancy over all competitors.

"In regard to my CASE 28-46-inch steel separator will say that I defy competition as to clean and fast work, both getting the grain out of the straw as well as cleaning the grain. My fastest threshing this year has been 497 bushels of oats in one hour and twenty minutes. Therefore I say the CASE is the peer of them all."—J. W. BUHL, Brooklyn, Ohio.

Prices Quoted on Pages 61, 62 and 63.



Outline Illustration Showing Working Parts of a CASE Separator, Feeder and Windstacker.

An Excellent Cleaner

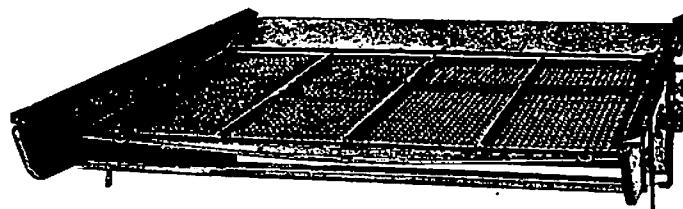
In addition to being a fast thresher and a thorough separator, our machine has the equally important merit of being an excellent Cleaner. It is not an uncommon occurrence for farmers, who have had their threshing done by a CASE machine, to get a higher price for their grain on account of it being so well cleaned. Farmers should bear this in mind when contracting for their threshing and specify the CASE to do their work.

By the use of the Adjustable Conveyor Sieve, which we place in the Conveyor, the operator can regulate the amount of grain the Shoe Sieves can handle to the best advantage.

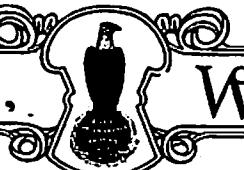
Our Adjustable Sieves for Shoe and Conveyor have attained such a wide popularity with our customers that we now regularly equip all machines with them. Many who had bought their outfits before we began furnishing the adjustables have put them in with the same success and satisfaction as the purchasers of new machines equipped with them. The Adjustable Shoe Sieve replaces efficiently the large number of common sieves formerly carried with each machine, which were inconvenient to carry along, were continually being broken and otherwise damaged, thus adding to the trials of the thresherman, increasing his expense account, and reducing his earnings.

With our Adjustable Shoe Sieve, the regulating is done from the outside without stopping the work. This is also true in changing from one grain to another. The thread and thumb-screw adjustment of the Sieve makes it possible to get the finest results in wheat, oats, barley, rye, speltz, beans and peas. In flax, clover, orchard grass, timothy and alfalfa, it is necessary to use an extra sieve under the adjustable. This range of requirement formerly necessitated some seventeen special sieves, zinc and wire screens.

The CASE Shoe has an end-shake motion. We have always considered the end-shake superior to the side-shake because it not only gives a better movement for cleaning, but also harmonizes with the entire motion of the machine, and does not create counter strains. The chaff and fine straw is worked to the rear over the entire surface of the Sieve while the grain drops on the sloping, galvanized-iron bottom of the Shoe through a well regulated blast from the Fan. The Shoe oscillates noiselessly on wooden springs that never wear out.



Adjustable Sieve in Shoe.



Racine, Wis. U.S.A.

The Fan in CASE machines is the under-blast type and occupies the entire width of the Separator. Perfect regulation of the draft is obtained by blinds on both sides. The wind-board is so placed in the machine that the blast from Fan will strike the Conveyor Sieve about half way back. In this way the strongest part of the blast will pass through the Shoe Sieve near the front end, which gives it a cleaning capacity its full length.

Tailings Elevator

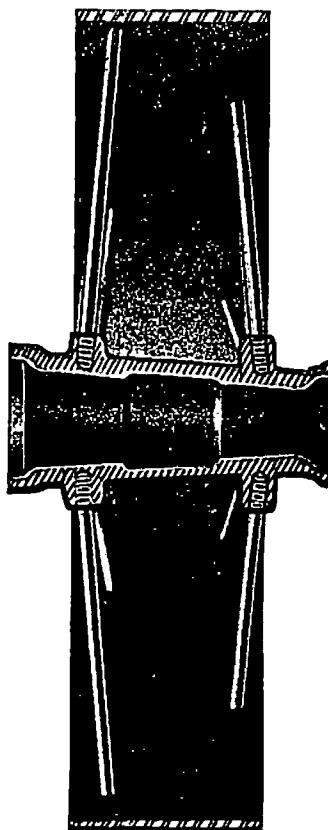
This essential mechanism of a grain separator has had the careful attention of our mechanical department. The auger is placed at the extreme rear of the separator. The elevator is sheet steel, our regular double-tube pattern, with tubes five inches in diameter. It has a sprocket chain carrying circular steel flights and is driven direct from the crank-shaft. The upper shaft runs in sliding boxes so that any slack in the chain can be adjusted. The Tailings Conveyor delivers at the middle of the cylinder and so prevents overloading one side of the separator.

Fewer belts are used on our machines than on any other, and the entire driving system is more simple and direct than that found on other makes. Belts require careful attention to keep the machine in the best running order, therefore the fewer in number and the best in quality, should not be overlooked by the discriminating buyer.

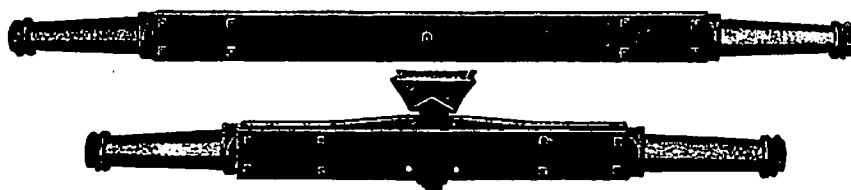
Trucks

As a threshing rig is constantly moved from place to place over all kinds of roads, the Trucks are an important consideration. The strongest possible type of wheel and axle are a necessity if the thresherman is to rest in the assurance of getting through his season's run.

All our wheels are the steel-tire-and-spoke type with tires ranging from four to ten inches wide regular and twelve inches on special order. These will carry the machine over the softest ground and also afford a substantial base for the entire separator mechanism. The hubs are extra long.



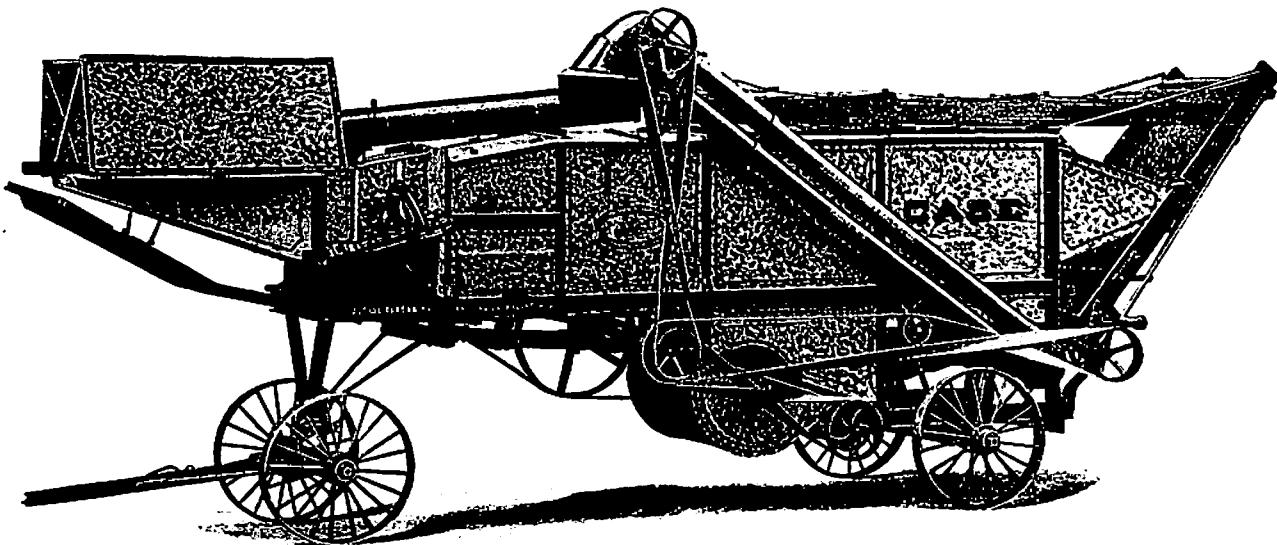
Showing Construction of Separator Truck Wheel.



Steel Axles That Don't Break, Warp or Wear Out.

The steel axles are proof against breakages and will never sag or warp as wood axles do when subjected to undue weight or severe weather. With each of our machines is included a spliced tongue for use with teams or engine, and a set of doubletrees and neckyoke.

Prices Quoted on Pages 61, 62 and 63.



36-Inch Geared Steel Separator, 18x22-Inch Cylinder

Hand-feed Attachment, and 16-Foot Folding Stacker

The machine illustrated on this page is the smallest we build and can be operated by steam-engine or horse-power. It is an ideal size for co-operative work among a few farmers or for the individual growing extensive grain crops. The plan of several farmers organizing a threshing company to do their own work is becoming general. To have grain that will grade the highest it is of considerable importance that it be threshed before it has been exposed too long in the shock under unfavorable weather conditions. A small machine owned by a few, makes it possible to thresh the crops early and during seasonable weather. This is not always possible where it is necessary to wait for the job thresher. A machine so managed and doing the work under favorable conditions will give fine results. We furnish, free, organization blanks for the formation of such co-operative companies.

"We have used one of your 18-inch cylinder steel separators, and have threshed 41,600 bushels, making a net profit of \$825.00. We are now preparing to thresh the peanut, kaffir corn and maize crop, which will require about eight weeks time."—HUNTER BROS., Hawley, Texas.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 18 inches; diameter, 22 inches; speed, 1075 revolutions; 12 double bars; 51 Sandow steel teeth with tempered blades and annealed shanks which are interchangeable with concave teeth.

POWER—Geared for horse-power or belted for engine. Regular pulley 8½-inch diameter, 8-inch face. We have several other sizes, any one of which will be substituted when specified in order.

FEEDER or Hand-feed Attachment as ordered. Special Feeder for headed grain, "Spokane No. 9."

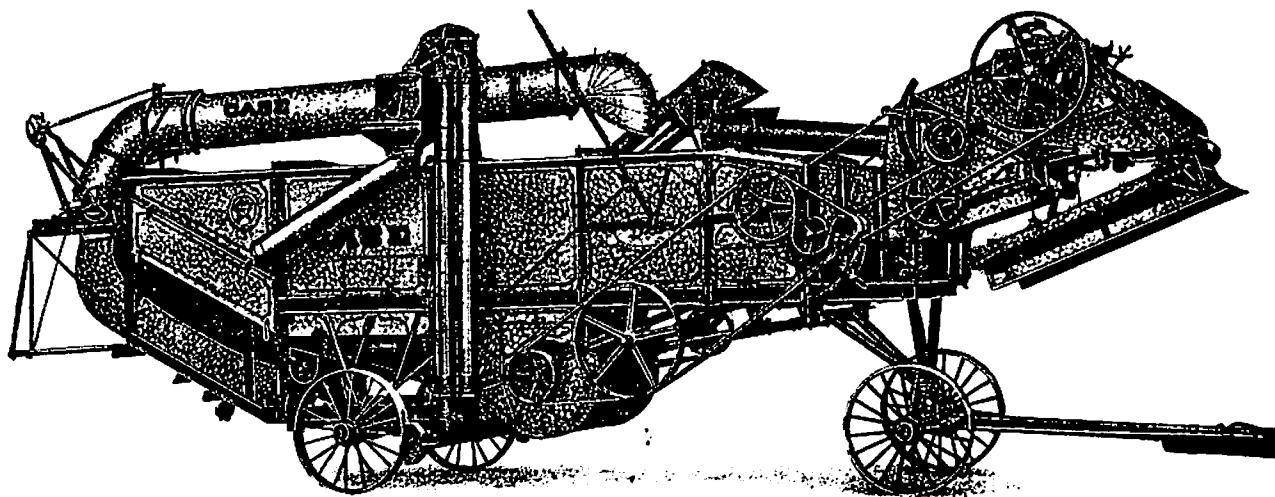
STACKER—CASE automatic attached or common 16-foot, as ordered.

GRAIN HANDLER—Either our No. 1 Weigher, No. 3 or No. 4 Bagger; No. 6 Loader or the Tally-Box and Register. The No. 2 Weigher or No. 5 Loader can be but are seldom used on this machine.

TRUCKS—Wheels, 30 inches in diameter, 4-inch tires; 6-inch tires furnished on special order at extra price; steel spokes and rims, steel axles, 10-inch skeins, tongue, neckyoke and whiffletrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS—Furnished on special order: Clover, Pea, Bean or Peanut. The Rice Equipment is regular for rice threshing.

Prices Quoted on Pages 61, 62 and 63.



42-Inch Belt Steel Separator, 24 x 22-Inch Cylinder

Feeder, Windstacker, No. 3 Weighing Bagger and Brake

Our 42-inch Separator, as illustrated above, makes a good one for a co-operative company of larger membership than one using our 18-inch cylinder machine. There is an increasing demand each year for this size Separator. It is our medium 12-bar Separator and is equally desirable with steam or horse-power.

"The CASE 24-inch steel separator, hand-feed attachment, folding stacker and No. 1 weigher has given entire satisfaction. We have threshed about eighteen days and have a clear profit of \$600.00."—A. D. BLACKWELL, Tulia, Texas.

"The CASE 24-42-inch steel separator with wind stacker, feeder, bagger, pea and bean attachment has given us perfect satisfaction. Threshed stock peas and soy beans as clean as can be. We never saw any machine do as perfect work on peas and beans before."—HANSON BROS., Columbia, Tennessee.

"The CASE 24-inch steel separator on a good fair test, without any undue hurry, threshed 217½ bushels of oats in thirty-one minutes."—H. R. CAHOON & Co., Almo, Idaho.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 24 inches; diameter, 22 inches; speed, 1075 revolutions; 12 double bars, filled with 69 Sandow steel teeth with tempered blades and annealed shanks which are interchangeable with concave teeth.

POWER—Geared for horse-power or belted for engine. Regular pulley 8½-inch diameter, 8-inch face. We have several other sizes, any one of which will be substituted when specified in order.

FEEDER, or Hand-feed Attachments. Either will prove satisfactory on this size Separator. Special for headed grain, "Spokane No. 9."

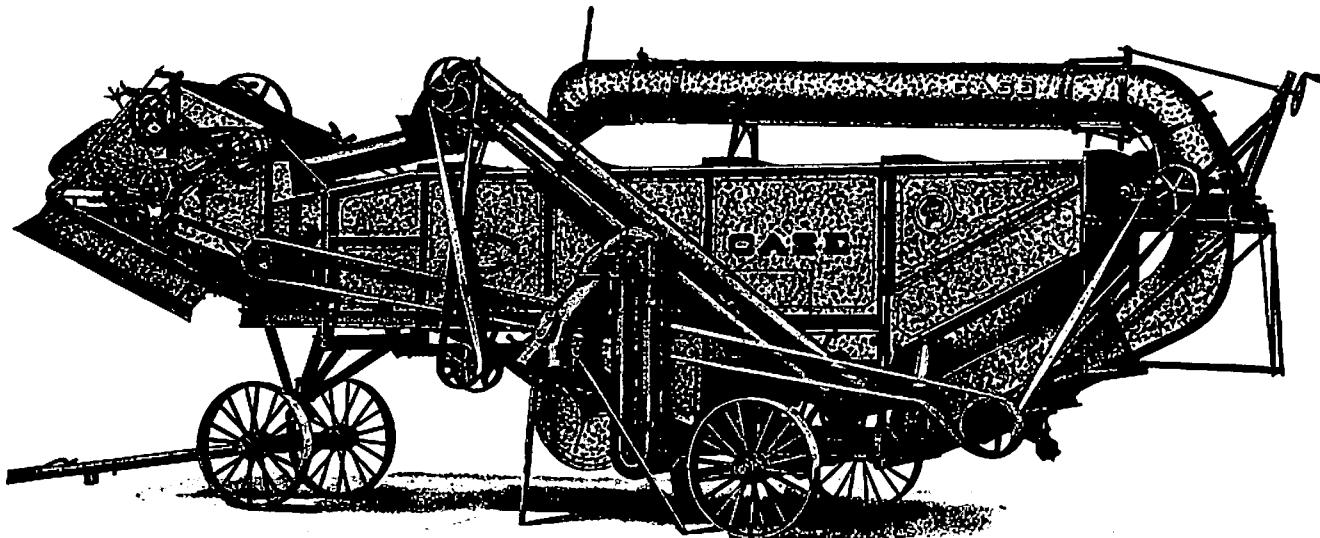
STACKER—Either Wind, Combination, Common Folding, or Attached Automatic of our make can be used.

GRAIN HANDLERS—Our Low Loader No. 6 or the Nos. 1, 2 and 3 Weighers or No. 4 Bagger make a good grain attachment for this machine. Any of the other styles can also be used.

TRUCKS—Wheels, 30 inches in diameter; 4-inch steel tires, 6-inch tires furnished on special order at extra price, steel spokes, steel axles, 10-inch skeins, spliced tongue, neckyoke and whiffletrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS—Furnished on special order; Clover, Pea or Bean. The Rice Equipment is furnished regularly for rice threshing.

Prices Quoted on Pages 61, 62 and 63.



46-Inch Belt Steel Separator, 28 x 22-Inch Cylinder

With Windstacker, Feeder, No. 4 Bagger and Brake

What we have said regarding the other size Separators previously mentioned applies to this machine. It is our largest 12-bar Separator, which is suitable for steam or horse-power, and is an ideal machine for individual or small custom work.

"My CASE 28-46-inch steel separator started at 7:30 in the morning, and threshed 971 bushels of oats and 402 bushels of wheat; with one hour off at noon, made three settings and pulled two miles, and was through at 8 o'clock in the evening. We have threshed over 100 bushels of wheat in an hour."—CHARLES HINKLEY, Birmingham, Ohio.

"I find your CASE 28-46-inch steel separator satisfactory. In sorghum the machine handled nicely sixty pounds of seed per minute, while in black eye peas it cleaned forty to fifty pounds per minute. Expect to be threshing peanuts with it in a few days."—E. A. MINEAR, Harwood, Texas.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 28 inches; diameter, 22 inches; speed, 1075 revolutions; 12 double bars; 81 Sandow steel teeth with tempered blades and annealed shanks which are interchangeable with concave teeth.

POWER—Geared for horse-power or belted for engine. Regular pulley 8½-inch diameter, 8-inch face. We have several other sizes, any one of which will be substituted when specified in order.

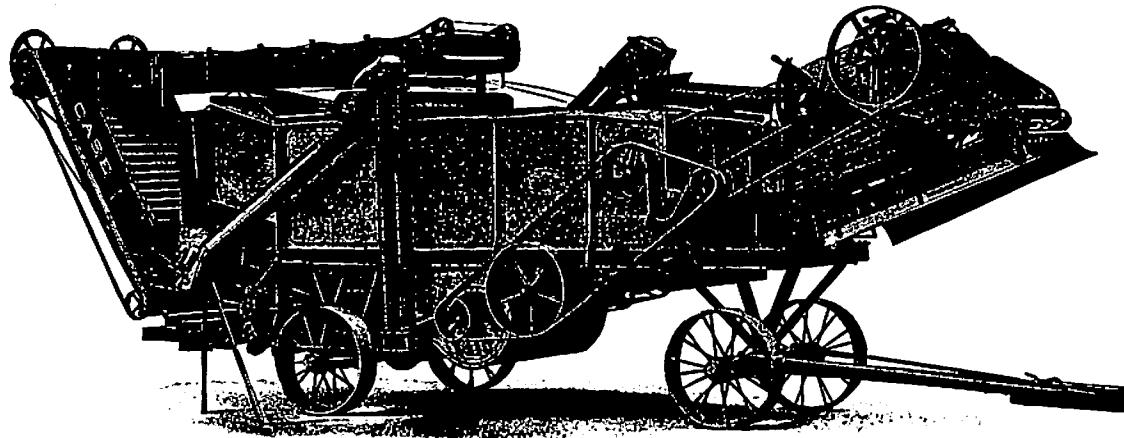
FEEDER, or Hand-feed Attachment furnished. We recommend the self-feeder for best results. Special for headed grain, "Spokane Feeder Nos. 8 and 9."

STACKER—The CASE Folding Wind, Attached or the Combination Stackers, will work satisfactorily on this machine.

GRAIN HANDLER—The Nos. 1 or 2 Weighers, the Nos. 5 or 6 Loaders, or either of the Baggers, work well on this size Separator.

TRUCKS—Wheels, 30 inches in diameter, 4-inch steel tires; 6-inch tires furnished on special order at extra price; steel spokes, steel axles, 10-inch skeins, spliced tongue, neckyoke and whiffletrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS—Such as Clover, Pea, or Bean, will be furnished at extra price on special order. The Rice Equipment is regular for rice machines.



50-Inch Steel Separator, 28 x 32-Inch Cylinder

With Attached Automatic Stacker, Feeder and No. 6 Loader

This is a very popular size and is therefore one of our best sellers. It has a record for capacity unequalled by any make of equal size. It gives uniform satisfaction in all localities and for threshing all kinds of grain, grass seeds, peas, beans, rice, etc., when fitted with our special attachments for such crops.

"The CASE 28-50-inch steel separator is by far the best saver and cleaner of any we have ever used. We have threshed for fifteen years, using different makes of machines, but the CASE Separator is by far the best."—C. O. LINSTROM, Chariton, Iowa.

"On the 21st day of July, 1908, I threshed 612 bushels of wheat in just three hours with our CASE 28-50-inch steel separator."—H. V. WEBER, Clinton, Oklahoma.

"Have threshed over 20,000 bushels with our CASE 28-50-inch steel separator and it has given the very best satisfaction."—J. A. PATTERSON, Boissevain, Manitoba, Canada.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 28 inches; diameter, 32 inches; speed, 750 revolutions; 20 double bars; 135 Sandow steel teeth with tempered blades and annealed shanks which are interchangeable with concave teeth.

POWER—Built as belt machine, to be run by an engine. Regular pulley 13½-inch diameter, 9¼-inch face. We have several other sizes, any one of which will be substituted when specified in order.

FEEDER or Hand-feed Attachment furnished. We recommend the self-feeder for best results. Special for headed grain, "Spokane Feeder Nos. 8 and 9."

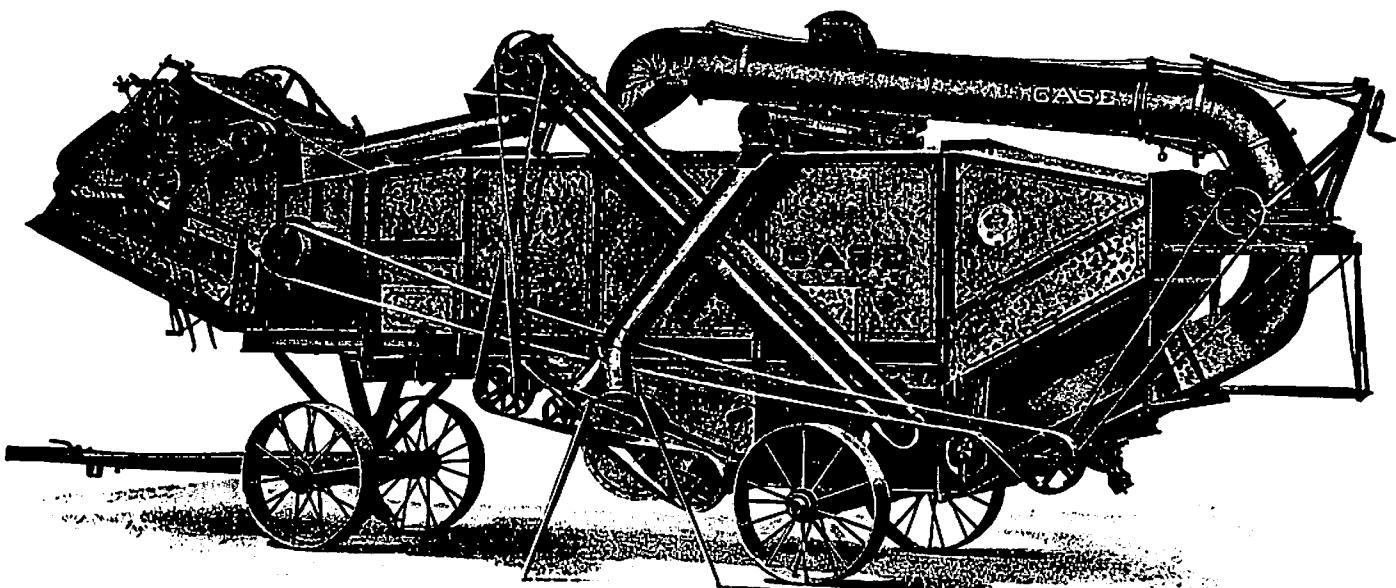
STACKER—The CASE Wind, Attached or the Combination Stacker, will work satisfactorily on this machine. Will furnish the common Folding Stacker if preferred.

GRAIN HANDLER—The Nos. 1 or 2 Weighers, the Nos. 5 or 6 Loaders or either of the Baggers work well on this size Separator.

TRUCKS—Wheels, 34 inches in diameter, 8-inch steel rims, steel spokes, steel axles, 12-inch skeins, spliced tongue, neckyoke and whiffletrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS such as Clover, Pea or Bean Recleaner, Straw-Bruiser, can be fitted to this machine and will be furnished at extra price on special order. The Rice Equipment is regular for rice machines.

Prices Quoted on Pages 61, 62 and 63.



54-Inch Steel Separator, 32 x 32-Inch Cylinder

Windstacker, Feeder, No. 1 Weigher with Conveyor and Bagging Attachment

The large number of machines of this size we sell each year entitles it to the designation, "Standard." It is a good, medium size job thresher that will handle an ordinary crop as fast as a crew can care for it. Other sizes are governed somewhat by sections—this is used North, South, East and West, and is always a profitable investment.

"Have operated nine different makes of machines during the last eighteen years and the CASE 32-inch steel separator has given me the best satisfaction of any. It saves and cleans and runs easier with less trouble and expense than any that I have ever operated."—NAPOLEON BAUCHIME, Huot, Minnesota.

"The CASE 32-inch steel separator gives entire satisfaction in every way. The joints are so solid that they cannot get loose, which makes the machine run perfectly true."—JOSEPH KRABCEK, Caldwell, Kansas.

"The CASE 32-54 steel separator is the best cleaner that I ever saw. The grain buyer at Berne stated that he could tell the grain from my machine, because it was the cleanest that came to the elevator."—P. F. MOSER, Berne, Indiana.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 32 inches; diameter, 32 inches; speed, 750 revolutions; 20 double bars; 155 Sandow steel teeth with tempered blades and annealed shanks which are interchangeable with concave teeth.

POWER—Built as belt machine, to be run by an engine. Regular pulley 13½-inch diameter, 9¼-inch face. We have several other sizes, any one of which will be substituted when specified in order.

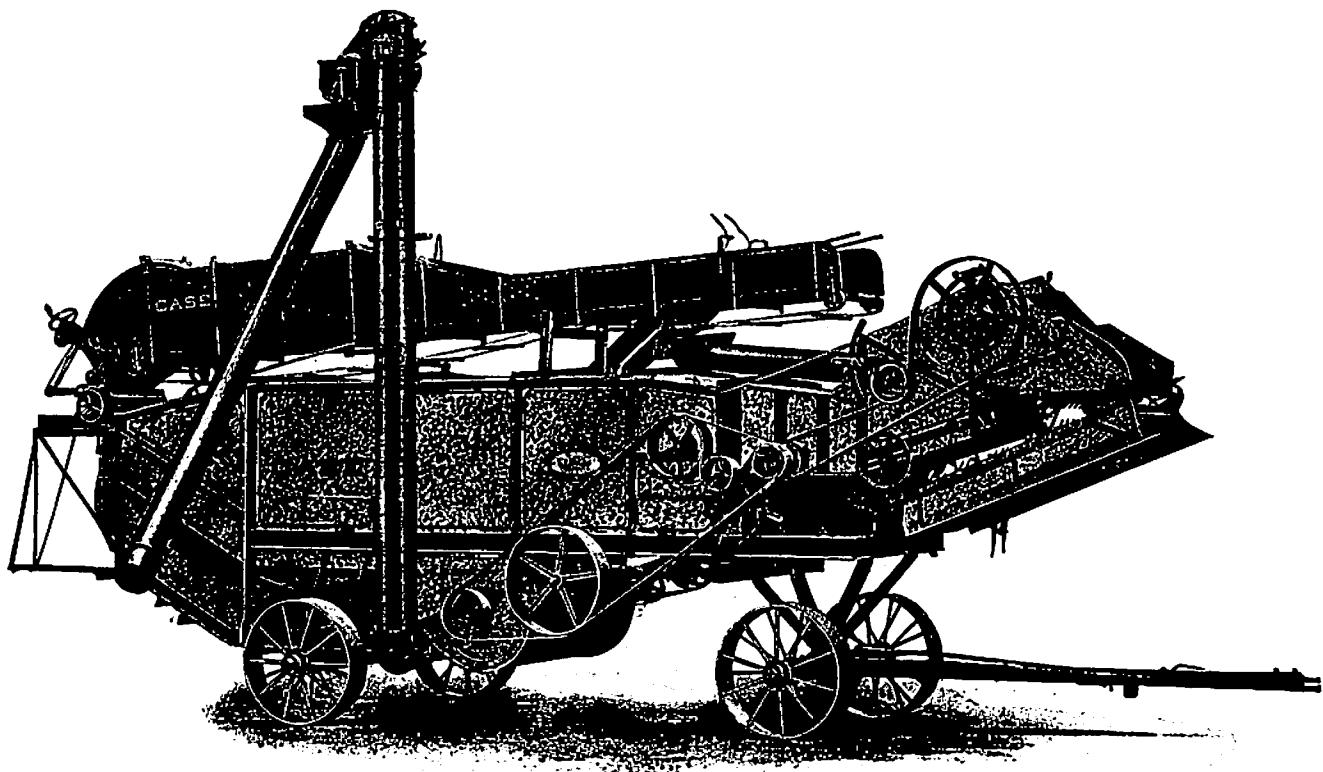
OUR FEEDER will prove more satisfactory than the Hand-feed Attachment. The latter furnished if desired. Special for headed grain "Spokane Feeder Nos. 8 and 9."

STACKER—The CASE Windstacker is extensively used with this size Separator. The Combination, or Attached Stackers are equally satisfactory. Common Folding Stacker furnished if wanted.

GRAIN HANDLER—The No. 1 or 2 Weigher is an ideal attachment for the 54-inch Separator. Nos. 3, 4 and 5 may be used if desired.

TRUCKS—Wheels, 34 inches in diameter with 8-inch steel tires and steel spokes, steel axles and 12-inch skeins. Spliced tongue, neckyoke and set of whistletrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS—Clover, Pea, Bean, Recleaner. Regular Rice Equipment for rice threshing.



58-Inch Steel Separator, 36 x 32-Inch Cylinder

Combination Stacker, Steel Feeder, No. 2 Weigher

This is the size most generally used in the grain growing sections of the middle West. It has unsurpassed capacity for its size and will properly thresh, separate and clean all the grain that an ordinary crew can get to it. Threshermen find it an exceptionally profitable Separator to operate even in the greatest grain-growing sections.

"We consider the CASE 36-58-inch steel separator a wonderful improvement, makes less noise, is more solid and much easier to keep up. This is the second year we have run it and it is just as solid and the frame is in as good condition as the day we unloaded it. Threshed 2,000 bushels of wheat in one day."—JOHN & RAY ALLEN, Mahaska, Kansas.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 36 inches; diameter, 32 inches; speed, 750 revolutions; 20 double bars; 175 Sandow steel teeth with tempered blades and annealed shanks, which are interchangeable with concave teeth.

POWER—Built as belt machine, to be run by an engine. Regular pulley 13½-inch diameter, 9½-inch face. We have several other sizes, any one of which will be substituted when specified in order.

FEEDER—The CASE Feeder should be used with this size Separator. It is more economical and increases the capacity. A special Feeder for headed grain, "Spokane No. 8."

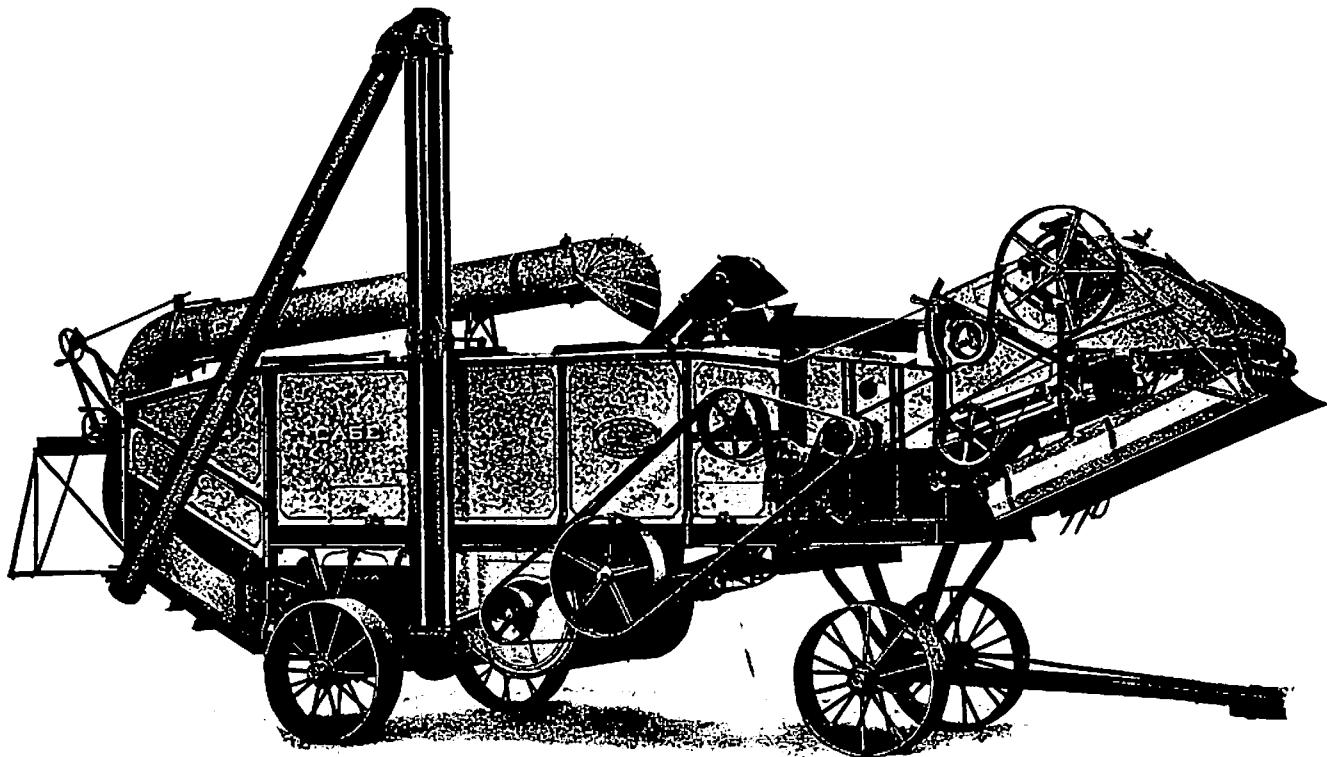
STACKER—The CASE Windstacker or the Combination used with this machine makes an excellent threshing rig. The Attached or common Stackers can be used, if preferred.

GRAIN HANDLERS—While any of our Weighers, Loaders or Baggers are serviceable, we may without prejudice especially recommend Nos. 1, 2 or 5 as being best adapted to this machine.

TRUCKS—Wheels, 34 inches in diameter, 8-inch steel rims, steel spokes. Steel axles; skeins, 12 inches long. Spliced tongue, neckyoke and whiffetrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS—Recleaner, Clover, Pea or Bean attachments furnished at an extra price.

Prices Quoted on Pages 61, 62 and 63.



62-Inch Steel Separator, 40 x 32-Inch Cylinder

With Windstacker, Feeder and No. 5 Loader

A machine of extremely large capacity, suitable for heavy crops in sections of extensive grain acreage. Under favorable conditions, with a good average crop, the capacity is well nigh unlimited in wheat, rye, oats, barley, speltz or flax. The CASE 20-horse Engine furnishes ample power, though some of our customers prefer the 25-horse.

"Have run your CASE 40-62-inch steel separator two falls, and will say that it is all that you claim it to be. Had no bother at all this fall, threshed twenty days and cleared \$1,800, and saved \$500 on my own bill at home, as a total of \$2,300, and it is in fine shape now."—E. H. CARVER, Cummings, North Dakota.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 40 inches; diameter, 32 inches; speed, 750 revolutions; 20 double bars; 195 Sandow steel teeth with tempered blades and annealed shanks which are interchangeable with concave teeth.

POWER—Built as belt machine, to be run by an engine. Regular pulley, 13½-inch diameter, 9¼-inch face. We have several other sizes, any one of which will be substituted when specified in order.

FEEDER—The CASE Feeder should be used to get the best results. Hand-feed Attachment furnished if specified in order but at extra cost. Special for headed grain, "Spokane Feeder No. 8."

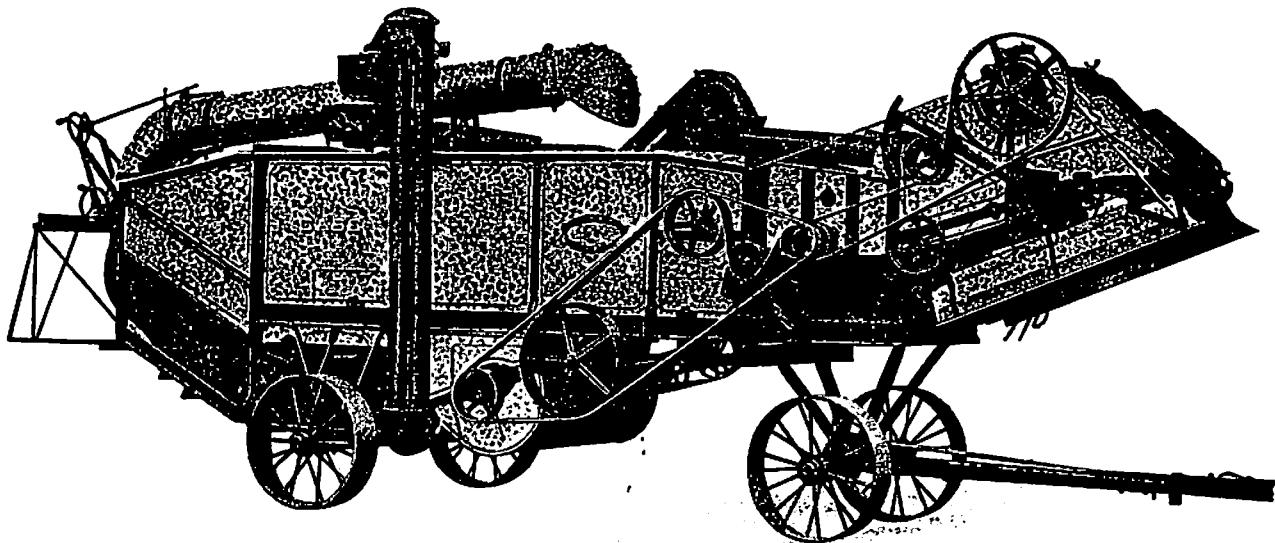
STACKER—The CASE Wind or the CASE Combination Stacker is the most suitable. The Attached automatic or common slat styles can be used if preferred.

GRAIN HANDLER—The No. 2 Weigher or the No. 5 Loader are generally used with this size machine. The No. 1 Weigher or the No. 6 Loader will also give equally efficient results.

TRUCKS—Wheels, 34 inches in diameter, 10-inch steel tires, steel spokes, steel axles, 12-inch skeins; spliced tongue, neckyoke and whiffletrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS—Any of our extra attachments "except Straw Bruiser" will be furnished with this Separator at extra price.

Prices Quoted on Pages 61, 62 and 63.



66-Inch Steel Separator, 44 x 32-Inch Cylinder

Windstacker, Feeder and No. 1 Weigher.

This is the largest Separator we build and represents the maximum size for a portable threshing machine. Its use is restricted to localities where large crops are raised. It will handle all the grain the largest crew can get to it, and thresh, separate and clean in the same manner as our smaller Separators.

"The CASE 44-66 steel separator is holding all threshing records in this neighborhood and for durability cannot be beat"—G. A. FREEMAN, Upham, North Dakota.

"During the past season we have had fire in our 44-66-inch steel separator four different times, Can cheerfully recommend the CASE steel separator as being the best on the market"—JAMES JACKSON. Bottineau, North Dakota.

"The CASE 44-66-inch steel separator purchased last year has given entire satisfaction. We have the reputation of not stopping from morning until noon and noon until night"—HENRY STROM, Hillsboro, North Dakota.

SPECIFICATIONS

CONSTRUCTION—Separator frame of structural steel; Separator sides galvanized sheet steel.

CYLINDER—Length, 44 inches; diameter, 32 inches; speed, 750 revolutions; 20 double bars; 215 Sandow steel teeth with tempered blades and annealed shanks which are interchangeable with concave teeth.

POWER—Built as belt machine, to be run by an engine. Regular pulley 13½-inch diameter, 9¼-inch face. We have several other sizes, any one of which will be substituted when specified in order.

FEEDER—Our Feeder should be used in all cases to supply the machine with grain up to its maximum capacity.

STACKER—Our regular Windstacker, or the Combination, makes a good, well-balanced rig. Any of our other styles will be furnished if desired.

GRAIN HANDLER—The capacity of any of our Weighers or Loaders is ample to care for the grain from this, our largest Separator. The Nos. 1, 2 or 5, are perhaps the most suitable.

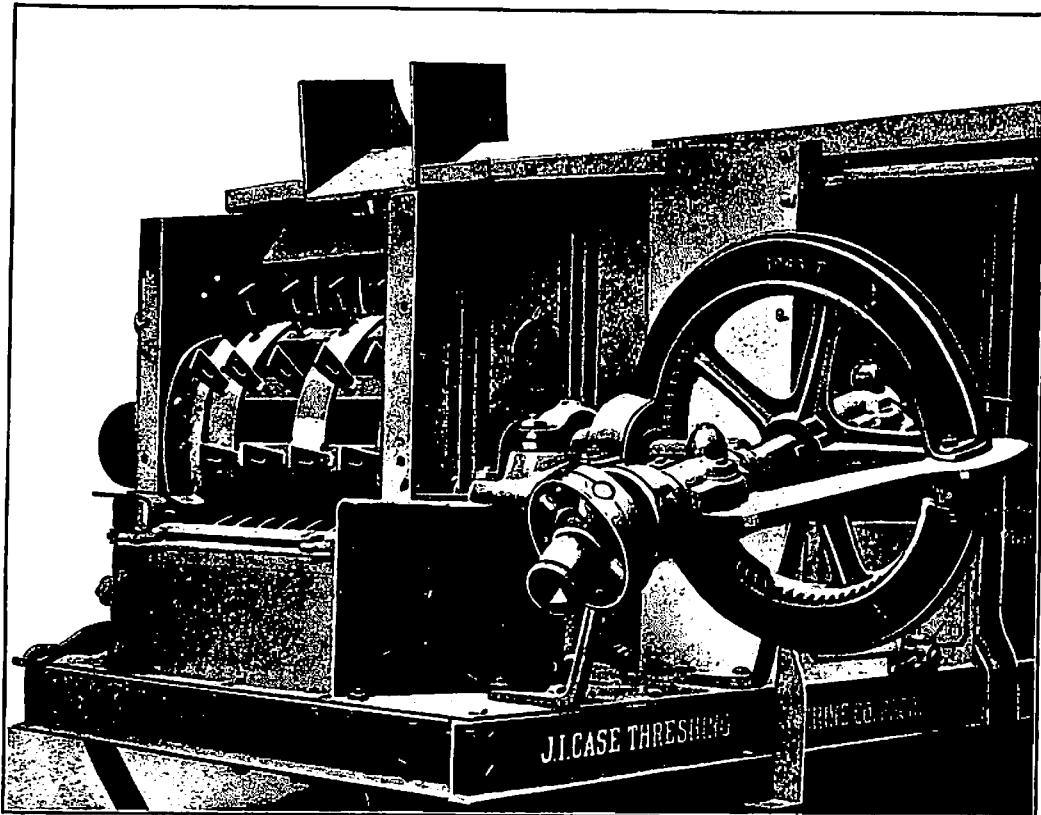
TRUCKS—Wheels are 34 inches in diameter and have 10-inch steel rims, steel spokes, steel axles, 12-inch skeins; spliced tongue, neckyoke and whiffletrees. Brake furnished on special order at extra price.

EXTRA ATTACHMENTS—Furnished on special order. They are not carried in stock and should be ordered sufficiently early to give us time for their manufacture.

Prices Quoted on Pages 61, 62 and 63.

J.I. Case Threshing Machine Company

Geared Separators



Side Gear with Clutch Knuckle

We furnish our 36, 42 and 46-inch Separators with side gear attachment to be operated by CASE Dingee-Woodbury horse-powers. Our horse-power rigs are as much in vogue as ever in new or rough, uneven territory where small rigs are desirable, and we continue to sell a very large number each season. They give that unvarying satisfaction always characteristic of CASE horse-power outfits, and never fail to prove a good investment for the thresherman because of fine work and steady reliability, and lower cost compared with steam outfits.

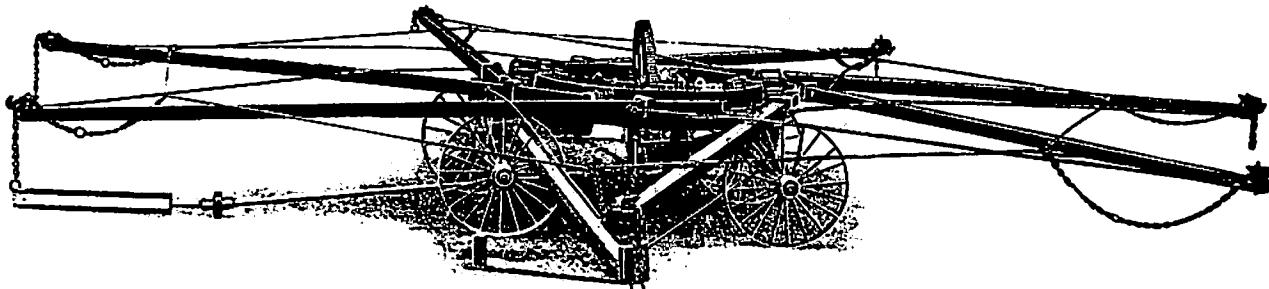
"We purchased this season one of your CASE 28-46-inch steel separators and one of your 14-horse lever powers. It has given the best of satisfaction, both to ourselves and customers."—SWIFT & WHITE, Arnott, South Dakota.



CASE Horse-Power, Operated by Oxen.

Prices Quoted on Pages 61, 62 and 63.

Racine. Wis. U.S.A.



14 Horse-Power with Sweeps, Equalizer and Brace Rods and Tumbling Rods in Position, Platform Removed.
Also built for 6, 8, 10 and 12 Horse-Power.

CASE Dingee-Woodbury Horse-Power

THE CASE Dingee-Woodbury is simple in construction, the metal frame design is perfect, and for power, lightness of draft and durability it far surpasses all others. The Double Bull Pinions remove all side strains and drawing over of the bull-wheel.

An Adjustable Babbitted Box supports the spur-wheel shaft at the center. This holds the shaft in perfect alignment and is adjustable to take up wear.

The Equalizer Sheaves fit the chains perfectly, thus preventing undue wear and adding to the durability of both chain and sheave.

The Truck Wheels are of steel with 4-inch tires. The wooden platform which covers the gearing does not revolve.

The Sweeps of the 12-horse and smaller sizes are 12 feet 7 inches long. Their ends move in a circle the circumference of which is 79 feet. The Sweeps of the 14-horse size are 14 feet long with their ends moving in a circle with a circumference of 89 feet. Horses ordinarily travel around the 79-foot circle $2\frac{1}{2}$ times a minute and around the 89-foot circle $2\frac{1}{4}$ times a minute, in either case covering about $2\frac{1}{4}$ miles per hour. The use of a 16-cog pinion, which gives 101 revolutions of the tumbling rod to one round of the horses, in most cases will give proper cylinder speed to our separators.

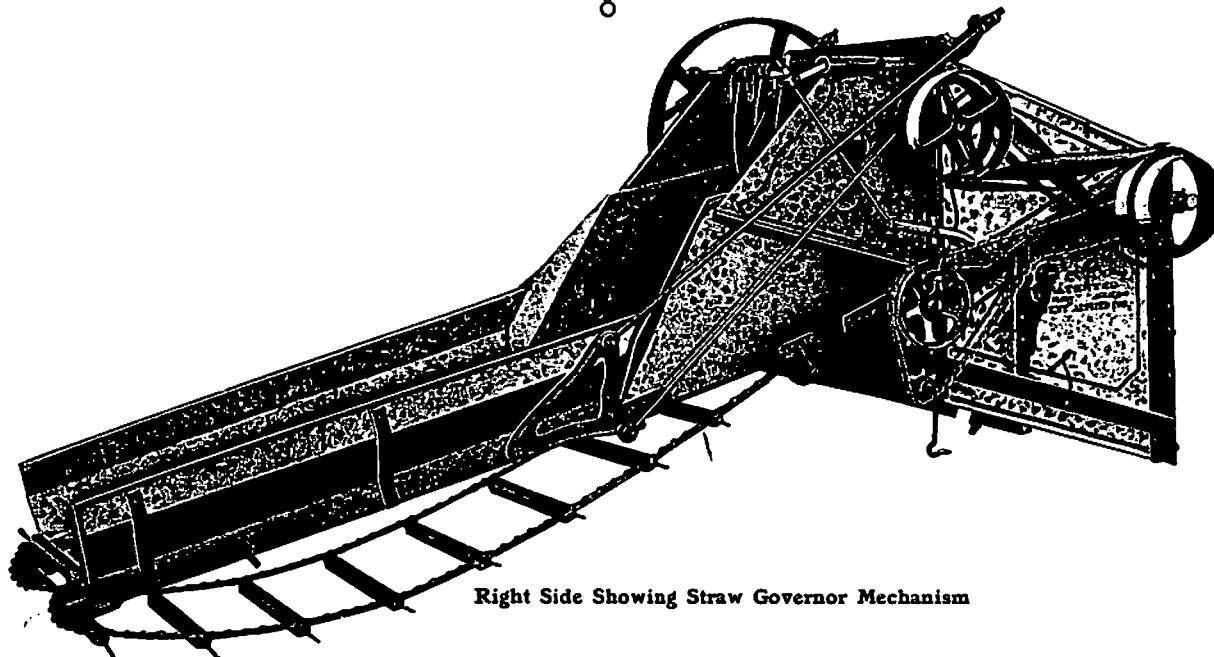
"Our CASE 24-inch steel separator and the CASE 10-horse power has given us perfect satisfaction, runs like a top and costs us nothing for repairs, saving every kernel of grain and doing first-class fast work. We consider same preferable to any gasoline rig, and can be run at a far lesser cost"—CHAS. J. HEUARD, Denholm, Saskatchewan, Canada.



Horse-Power Threshing Scene.

Prices Quoted on Pages 61, 62 and 63.

The Case Feeders



THE CASE Feeder represents the experience and improvements of seventeen years. We have made and sold more than any other kind on all makes of Separators combined, over eighteen thousand, for use on CASE machines only. We guarantee it to feed more and better than can be done by hand. In the cost of labor alone one of our Feeders will save more than its price in a season's run. It will also increase the capacity of the Separator sufficiently to return an extra profit over hand-feeding. Threshermen will remember that we build Feeders for CASE machines only, thereby secure better results in this way over feeders built for any and all makes of machines. The misfits and consequent bad work of Feeder or Separator combining such methods have been responsible for any prejudice existing heretofore against feeders in general. The splendid performance of the CASE under all conditions of crop and weather has eliminated this prejudice in our own trade.

The CASE Feeder for 1909 represents the highest attainment in this line of manufacture, as the illustrations herewith will indicate.

The Crank-Shaft has four cranks on the 18, 24 and 28-inch cylinder machines; the 32-inch has five; the 36, 40 and 44-inch sizes have six cranks. The cranks are protected by the straw-governor shoes which prevent winding of the straw in any kind or condition of grain.

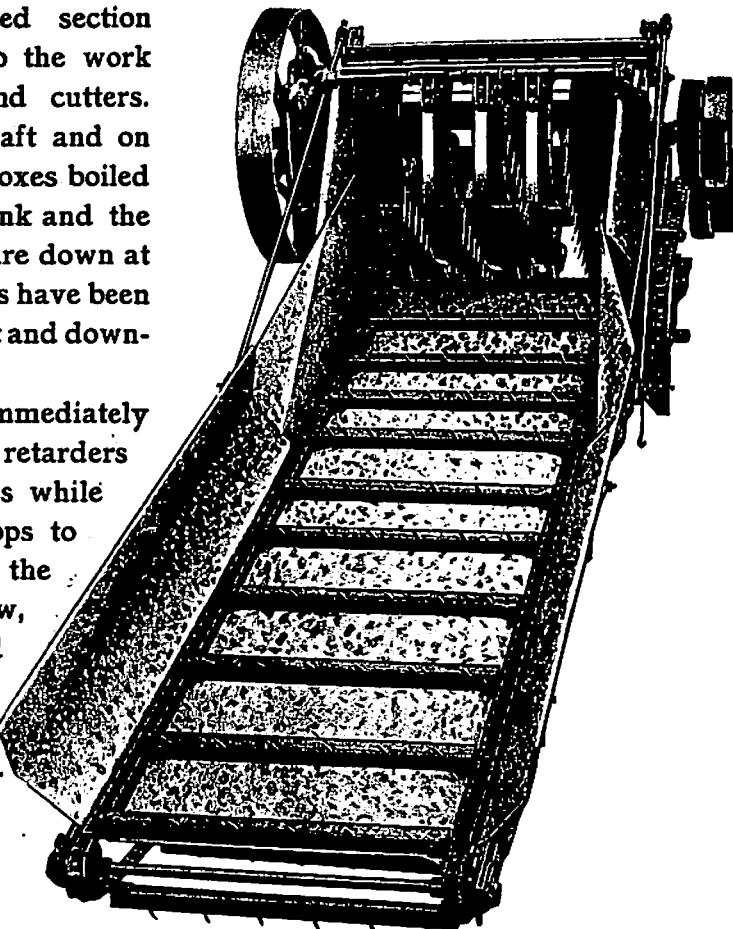
Prices Quoted on Pages 61, 62 and 63.

The Cutter Bars have serrated section knives, require no sharpening and do the work better than the rotary, circular band cutters. They have bearings on the Crank-Shaft and on the swinging hangers in maple-wood boxes boiled in oil. Each bar is on a separate crank and the shaft is so shaped that no two bars are down at the same time. The Cutter Bar Knives have been lengthened, extending more to the front and downward on an angle with the Carrier.

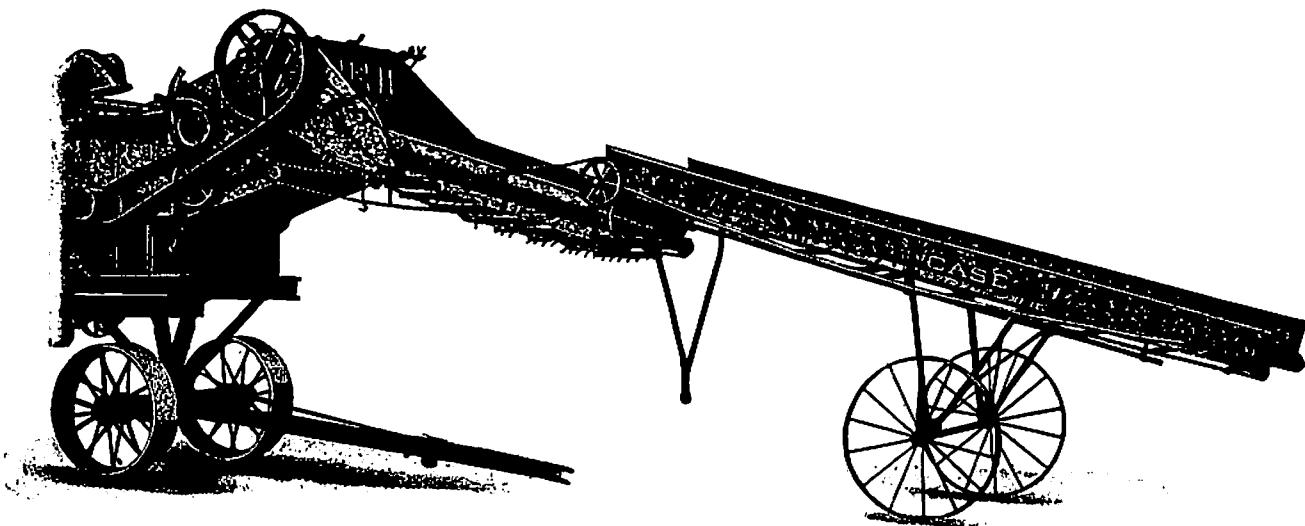
The Movable Hopper Bottom immediately in front of cylinder has revolving disc retarders which hold back the bottom of bundles while the cutter arms pull and push the tops to the cylinder. All bands are cut and the grain delivered in a steady, even flow, well up on the cylinder to insure good "draw." The Hopper Bottom is easily removed to give access to the cylinder and concaves.

The Carrier on our Steel Feeder is self-supporting and can be folded in half a minute with one hand. The Rake has two No. 55 link belts, carrying wood slats, in which are inserted large spikes that materially assist in the feeding operation by holding back the underside of bundles. Regular speed of the Carrier Rake is 75 feet per minute with belt on the inner pulleys, and 116 feet per minute with belt on the outer pulleys. Special sprockets can be furnished to give faster Carrier Rake speeds when desired.

THE STRAW GOVERNOR is a new addition to our Feeder, and has shown itself to be a very important improvement. It performs entirely different functions from the Speed Governor. The Speed Governor stops the entire Feeder when the speed drops below a certain point. The Straw Governor does not depend on the speed for its action, but upon the volume of straw passing into the Feeder. The "Straw Shoes," which are of channel shaped steel attached to a square shaft pivoted in front of the Crank-Shaft, ride upon the stream of straw passing into the Feeder. When this stream of straw is deeper than the Straw Governor is set for, it will cause the shoes to rise and disengage a clutch on the sprocket wheel driving the Carrier. The Carrier and Retarder are the only parts of the Feeder stopped by the Straw Governor, and since the knife arms are between the Straw Shoes and do not stop, they quickly reduce the amount of grain under the Straw Shoes, allowing them to drop and start the Carrier Rake.



Shows Shields, Straw Governor Shoes, Rake and Cutter Bars, and Friction Speed Governor.



Mounted Steel Extension Feeder Carrier

The length of the connection between the crank on the square shaft and the clutch arm is easily adjusted by means of a wing nut. This adjustment gives the operator complete control of the amount of grain going to the cylinder, and, if necessary, he can set the Straw Governor so that the Feeder will feed but half a bundle at a time. The knife arms travel very rapidly, quickly reducing the amount of grain under the straw shoes so that the Carrier is stopped only a short time; in fact, the length of time it is stopped is often almost imperceptible, thus preventing slugging of the cylinder.

THE MOUNTED STEEL EXTENSION FEEDER CARRIER enables operators to increase the capacity of their Separators by making it more convenient to get grain into the machine, especially in the headed grain districts. The Carrier is 13 feet 4 inches long and is easily moved and set. It is provided with a draw-bar and can be hooked on behind Separator or wagon.

To set, it is only necessary to put on the chain and drop the drive-shaft boxes into the forked castings bolted to the Feeder Carrier. The bolt holes in the castings are slotted to provide for tightening the drive chain. The drive chain is a steel pattern, No. 55 links, and will not unhook or fall apart when taken off the sprockets.

The Rake is similar to the Regular Feeder Rake, and the idler-shaft boxes are provided with screw adjustments for tightening the Rake.

The Truck Wheels are 36 inches in diameter and have 2-inch tires.

The Mounted Carrier is built in three sizes: for 32-inch, 36-inch and 40-inch Separators.

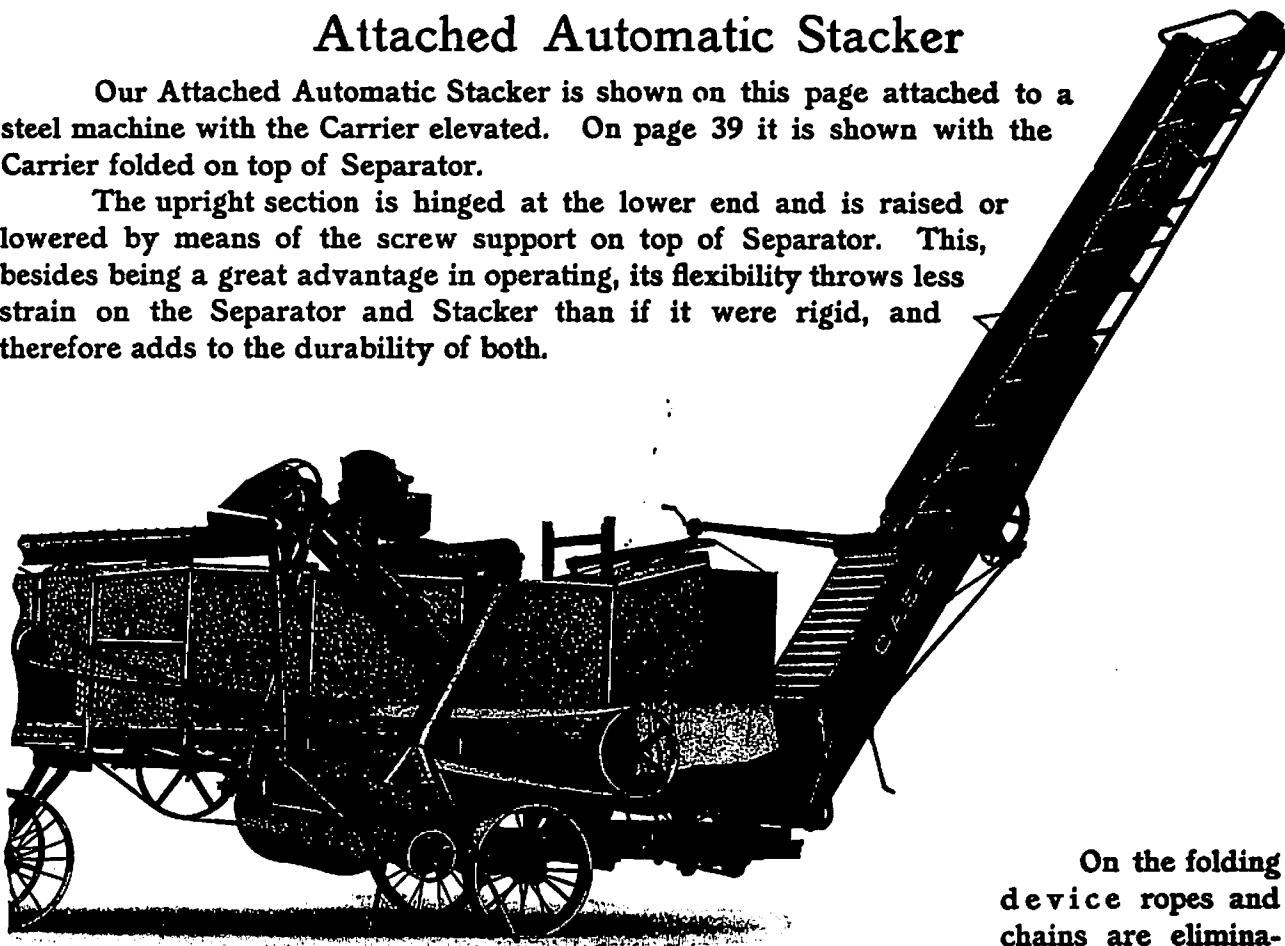
"The CASE self-feeder is the only true self-feeder made, to my notion, as you can regulate it to feed wet or dry grain to perfection."—S. B. STEADMAN, Tampico, Illinois.

"The CASE steel feeder is all that you claim for it, as it feeds the separator evener and faster than a man can feed. The straw governor distributes the feeding of the separator so that it runs at an even speed, and this allows us to clean the grain much better than when feeding by hand and running the cylinder at a high or low speed, according to the condition of the grain."—C. P. WILLIAMS & SONS, Nashville, Tennessee.

Attached Automatic Stacker

Our Attached Automatic Stacker is shown on this page attached to a steel machine with the Carrier elevated. On page 39 it is shown with the Carrier folded on top of Separator.

The upright section is hinged at the lower end and is raised or lowered by means of the screw support on top of Separator. This, besides being a great advantage in operating, its flexibility throws less strain on the Separator and Stacker than if it were rigid, and therefore adds to the durability of both.



Shows Stacker Drive and Elevation of Carrier

position without danger of falling. It is always locked in position and the slipping of a dog will not cause it to fall. The crank for holding it is at the right height for the operator standing on the ground. The folding device is also the raising device and is the simplest and safest of any similar mechanism made.

The main Rake passes only through the upright and outer sections and runs loosely and as easily as on a straight Stacker of the same length. There are pulleys at the top of the upright section as well as the bottom and all of them are drivers. The sheet-iron straw guard prevents the straw, as it leaves the machine, from being scattered by the wind. It is fitted with canvas curtains around the lower edge which prevent littering even with a strong side wind.

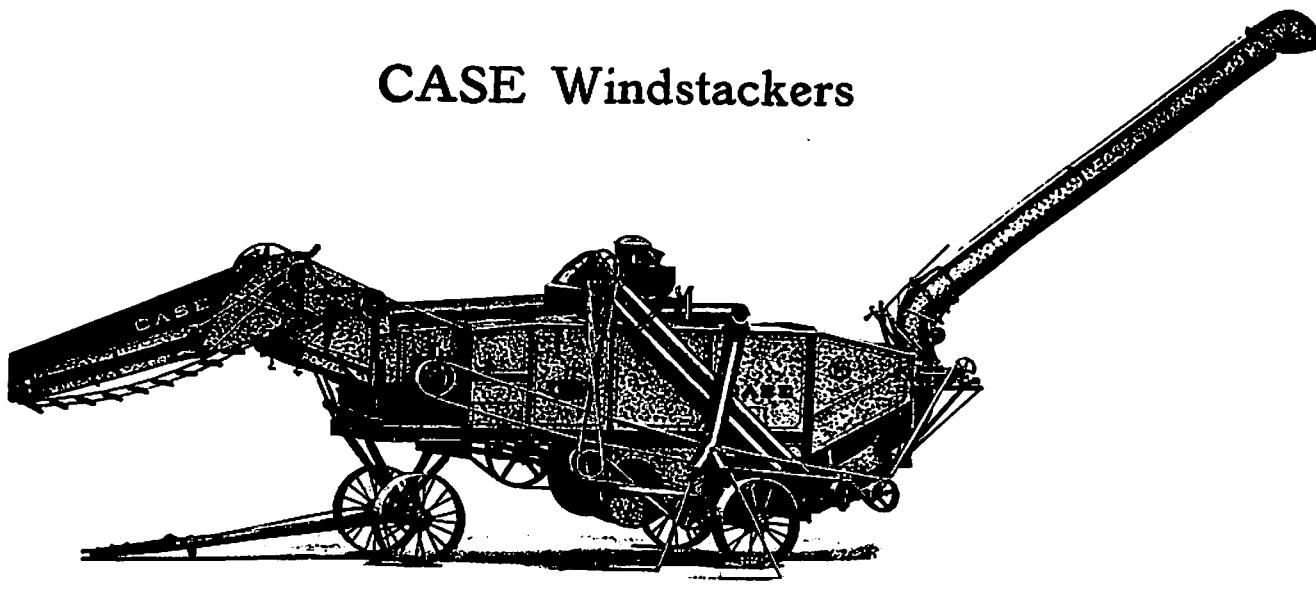
The automatic swinging device has been used by us for years. By changing the position of the trip pins the Stacker can be made to swing in any desired part of the half circle irrespective of elevation. The drive is from the Separator Cylinder, and the belt runs free of all parts of the Separator or Stacker without the use of idlers or guides.

"We are using a CASE attached stacker and recommend it to be far better than any other stacker."

—ARTHUR H. JACOBS, Nashua, Iowa.

Prices Quoted on Pages 61, 62 and 63.

CASE Windstackers



WE confine our efforts in Windstacker manufacture to CASE Separators exclusively. Its construction harmonizes with that of the Separator, in material and design, and produces as a whole the best balanced Grain Separator ever made or now on the market.

Practically all our Stackers are attached at the factory with the best shop facilities by experienced men.

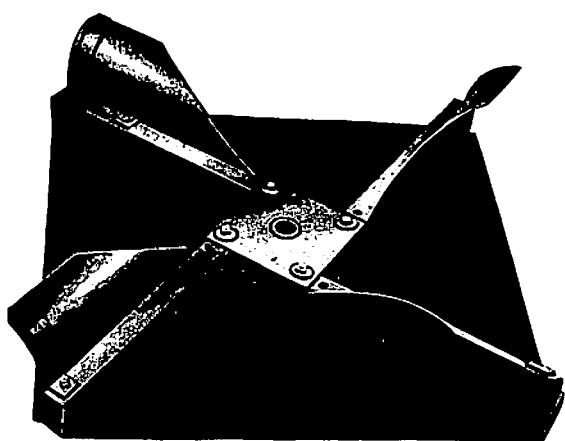
Our Stacker is driven direct from the cylinder.

The fan has four wings with the blades concaved at the top to force the draft, and a disc on the underside to prevent cutting and chopping of the straw, so prevalent in other windstackers. The fan drum is made of extra heavy sheet steel and sets up high enough to avoid all obstructions on the road.

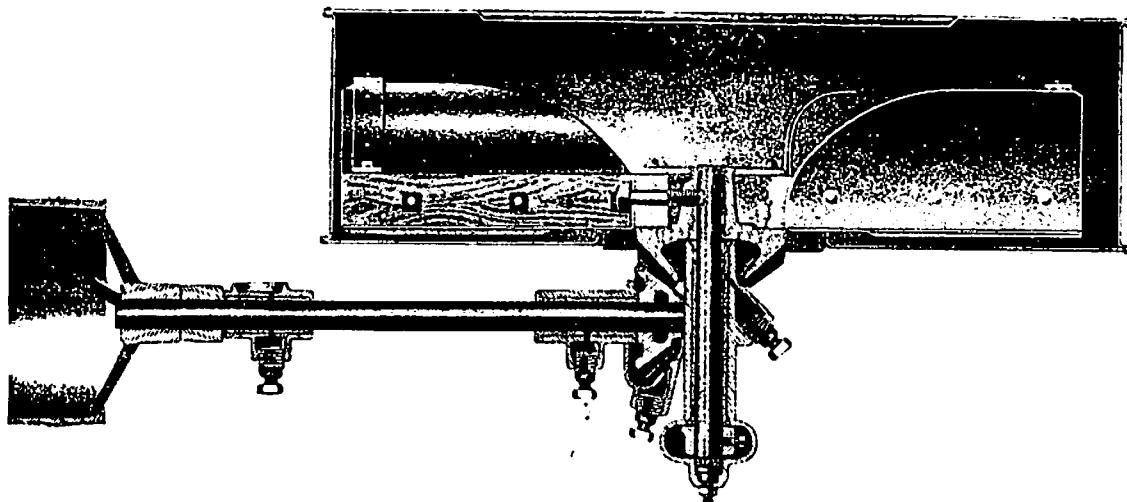
The square-to-round section of pipe between the drum and chute is detachable, giving free access to fan when necessary.

The chute revolves in a complete circle, or can be made to swing automatically in any part of a circle by inserting trip pins in the rim of the large worm wheel. It can also be swung by the hand wheel, if desired, in which case the 2-inch belt driving the swinging mechanism may be left off. The illustration shows the extreme height to which the chute can be raised, about twenty-five feet.

This gives it capacity for elevating the straw to the largest stacks without re-setting the Separator.



Prices Quoted on Pages 61, 62 and 63.



The telescoping device is positive in action and will keep the chute extended without regard to angle of elevation. From the conveniently located foot-board the operator commands a good view of the stack at all stages, consequently can manipulate the chute and hood so as to assist the men on the stack when desired.

The deflecting hood on end of chute has spring tension controlled by cord from the foot-board, and also may be turned in any direction to deliver the straw at will.

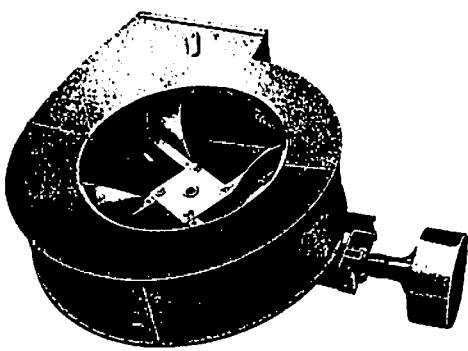
Combination Stacker

The CASE Combination Stacker attached to Steel Separator, as illustrated on page 41, supplies the demand of the threshermen for a machine that will give them the advantages of a Windstacker, and, at the same time, meet the wishes of farmers who desire to have men on the stack to build it.

A desirable feature of this style Stacker is the fact that the combination chute can be easily taken off and the telescopic chute of the regular Windstacker attached.

The Combination Stacker frame is built with a screen top $9\frac{1}{2}$ feet long, the outer forty inches being hinged so that it automatically adjusts itself to the amount of straw passing beneath. The carrier is nineteen feet long and of substantial construction.

It will swing in a complete circle, or any desired part of one, and can be raised to an angle of over forty-five degrees at which point it delivers straw twenty-two feet from the ground. The sideboards are high, but as an additional safeguard, presser strips are hung above the rake to insure the straw going to the end of the carrier even when at extreme elevation.

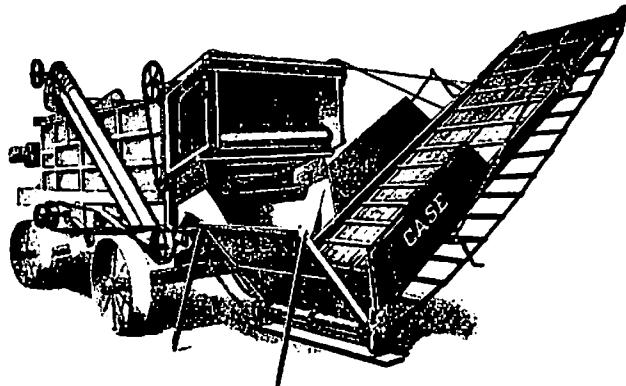


Fan and Drum

J.I. Case Threshing Machine Company

Right or Left, Common Side-Stacker

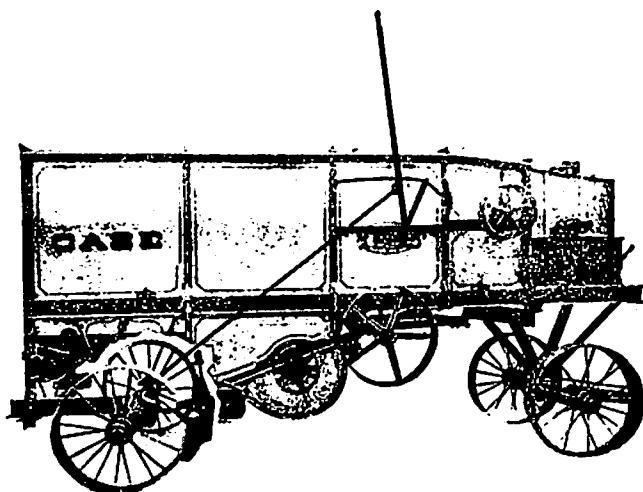
The CASE Side-Stacker has been designed expressly for barn threshing where it is desired to have the straw delivered into mows on either side of the Separator or at the rear. In construction it is practically the same as our Common Folding Stacker with the necessary parts and mechanism for working it from floor of building. It is driven from the Stacker shaft by a sprocket chain and consequently does not require careful "lining up."



The bevel gears afford a convenient method of reversing the drive sprocket, hence changing the carrier from one side to the other is easily accomplished. But a few minutes are required to place our Side-Stacker on the machine in the same position as the Common Stacker, which makes it convenient for transportation. It can also be operated in this position where preferred. If it be desired to change a Common Stacker on one of our machines already in the field to be run as a Side-Stacker we can furnish the parts.

Common Folding Stackers

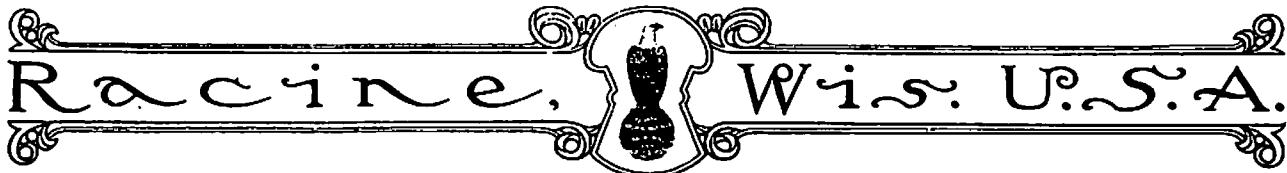
Common Stackers will be furnished in 18, 22 and 24-foot lengths to go with any size Separator, except the 36-inch, which takes a 16-foot length. These Stackers for 20-Bar Separators are provided with a convenient folding device worked from the ground. In moving, the outer section folds over on top of the machine.



Showing Separator Brake Mechanism.

"In the season of 1908 we purchased a CASE 20 horse-power engine with contractor's fuel bunker and 36-58-inch separator complete, and the rig has given us entire satisfaction, both as to work done and capacity. We purchased this rig to do only our own threshing, there being six in the company, and can say it has given the company as a whole, entire satisfaction, and I believe that any farmers' company purchasing a rig to do their own threshing will do well to investigate the CASE"—W. J. KUNTZ & Co., Cabour, South Dakota.

Prices Quoted on Pages 61, 62 and 63.



CASE General Purpose Separator

THE CASE Separator has a greater number of good points and advantages than any other in the field today. We shall not attempt any lengthy description of the machine, but will enumerate just a few of the salient features.

It is light in weight compared with other makes. Its design is neat and attractive and it is very compact. It is capable of being turned very short, as the front axle turns "all the way 'round," and this is also handy in storing the machine for the winter, as the pole can be turned underneath. The axles are closer to each other than perhaps any other thresher, which makes it handy to get about with in cramped places. Moreover, the axles, being comparatively close together, make it an easy machine to level up for work.

The advantages arising from the fact that practically the whole machine is constructed of steel cannot be overestimated. The frame never sags and twists when standing over winter. There are no bolts and screws to look after when beginning the next season's run. It makes a good foundation as well for our various attachments; wind and weather do not affect the machine; no warped sides or decking to fix; no cracked sills and open joints to catch water and rot; and if grain stacks alongside the machine happen to catch fire and burn up, it does not go with them, and if the owner renews the belts and the few wooden parts he is ready for business again.

Most of the bearings are self-aligning and all are of ample size. The best grade of babbitt is used in all that are subjected to much wear, and these are adjustable as well.

The simplicity of the CASE Separator cannot be approached by any other thresher on the market, as there are only six working parts in the machine, viz.: cylinder, beater, straw-rack, grain conveyor, cleaning fan and shoe; therefore the power needed to drive it is less than any other separator of equal size or capacity.

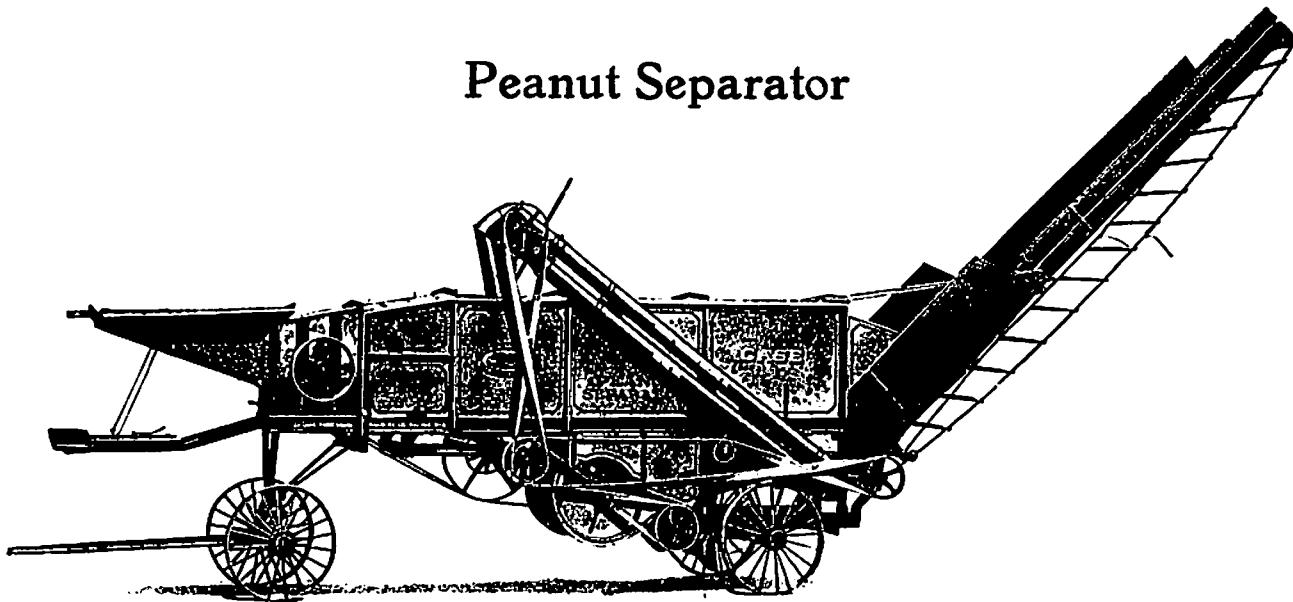
The CASE Separator is capable of doing such a variety of work that it can be called a "general purpose" thresher. It will thresh and clean any kind of grain or seeds that is ordinarily harvested with a twine binder, corn binder, self-rake reaper or mowing machine. To change from one kind of grain to another kind it is only necessary to change concaves and sieves, and the cylinder speed for certain grains. For the grains most commonly grown it is not necessary to change any parts at all—unless, perhaps, the concaves.

The Separator equipped as regularly sent out from the factory can be used for threshing the following kinds of grain and seeds without any additional parts, except an extra sieve in some cases: Wheat, Rye, Oats, Barley, Speltz, Flax, Buckwheat, Timothy, Millet, Hungarian Grass, Orchard Grass, Blue Grass, Red Top, etc.

With some extra parts, consisting of sieves, concaves or pulleys, as the case may be, the following can be very successfully threshed and cleaned: Peas, Beans, Rice, Clover, Alfalfa, Kaffir Corn, Broom Corn and Peanuts. We recommend the use of the extra parts for threshing any of these, but the Separator as regularly furnished has been used with success.

Prices Quoted on Pages 61, 62 and 63.

Peanut Separator



Right Side of the CASE Peanut Separator

THE CASE Steel Separator, equipped as a Peanut Thresher, is popular with threshermen on account of its durability, simplicity of construction, and the ease with which it is operated. The quality and quantity of its work have made it famous with peanut growers. Peanuts threshed with CASE machines bring the highest prices.

The machine may be equipped to thresh either the Spanish or Virginia variety of peanuts, cleaning them better and breaking a smaller percentage than any other thresher.

A Peanut Separator is subjected to extremely hard usage for the reason that immense quantities of sand and soil are taken in with the vines, causing excessive wear to the exposed parts. Our Improved Sand Shields are especially designed to protect such parts.

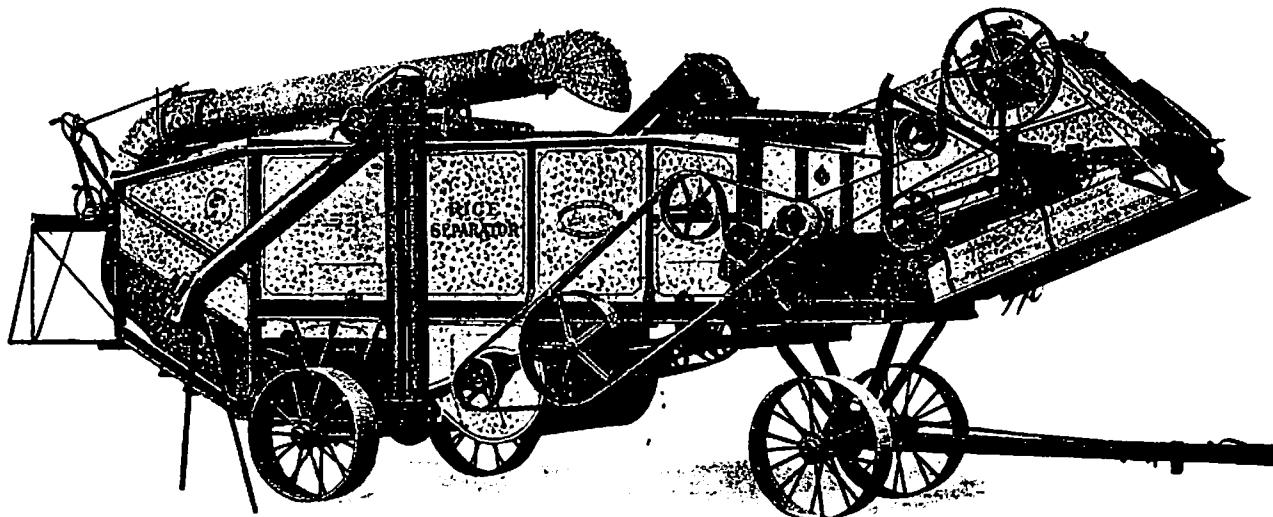
The life of a Peanut Separator depends largely upon its general design and construction; the CASE is practically all steel and is superior to others, being almost indestructible. The Cylinder Teeth are made of special steel, carefully hardened and tempered, thus insuring good wearing qualities. This is an important feature and one that should be carefully considered by threshermen before purchasing.

The crank shaft is made of open hearth steel. The boxes are large and are provided with compression grease cups for their lubrication, which also prevents the sand and dirt from working in and cutting out the journals.

The wide rear of the CASE Steel Peanut Separator affords ample separating capacity. The vines are delivered from the cylinder to the separating rack, which is agitated by the crank shaft and pitmans connected to vibrating arms, attached to rack and conveyor. The separating process is continued until the vines are discharged, the peanuts dropping upon the conveyor which delivers them to the conveyor sieve and fan blast where the first process of cleaning takes place. The peanuts are then dropped to the shoe sieve where they are subjected to the second process of cleaning, after which they are delivered to a trough which conveys them to bags or measures in a marketable condition. The tailings are permitted to fall into a tailings trough and are then conveyed to a tailings elevator, which delivers them to the separating rack, thus preventing waste. The fan has sufficient blast and can be so regulated that all litter and "pops" can be removed, making it possible to clean the peanuts thoroughly.

For a more complete description, ask for our circular on peanut threshing.

Prices Quoted on Pages 61, 62 and 63.



CASE Steel Rice Separator, Fitted with Windstacker, Feeder and No. 6 Loader.

OUR trade in the rice fields in the South, while always a growing one, has, since the introduction of our CASE Steel, Fire, Water and Rust-Proof Separator, greatly increased, owing to its success throughout the Rice Belt of Texas and Louisiana.

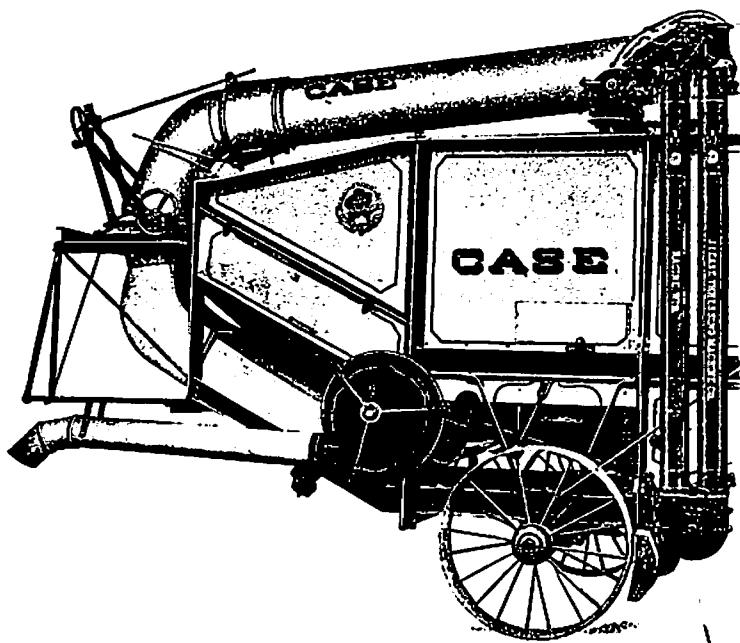
The difficulty in threshing rice from the head, especially Japan rice, is on account of the tough straw, which is very heavy and long; and the difficulty in separating the rice from the straw, on account of the roughness of both, are some of the conditions to be met and overcome by a successful Rice Separator. The conditions are the same where the straw is wet and muddy from standing in the submerged fields. The CASE 20-bar Steel Separator will thresh under conditions, when other makes of threshers are compelled to leave the field, because of the wet, tough condition of the rice straw; on account of its large separating capacity; its great concave surface, and 20-bar cylinder. Our Steel Rice Separator meets the demands of the thresherman and planter. The CASE Windstacker and Self-Feeder contribute greatly to the success of our Rice Separator.

We have a warehouse in Houston, Texas, where we carry a large stock of machinery, and a full line of repairs and supplies, and can fill all orders promptly.

"Am using one of your CASE 15-horse simple traction engines, and 32-54-inch steel separator, self-feeder and wind stacker. Have threshed this season about 6,000 sacks of rice, and have not had a break-down or one minute's trouble from the machine. My neighbors and partner had a machine of a different make, and he was continually having trouble, and if it had not been for the fact that I had a CASE outfit, no doubt would have lost part of my crop."—JOE TERMUS, Clodine, Texas.

"Am well pleased with the CASE separator and engine purchased recently. I like the steel construction of your separator on account of its safety from fire, and its durability. Have raised five rice crops and have never had any machine turn out as good a sample as I am now getting."—GEORGE S. GAYLE, Edna, Texas.

Prices Quoted on Pages 61, 62 and 63.



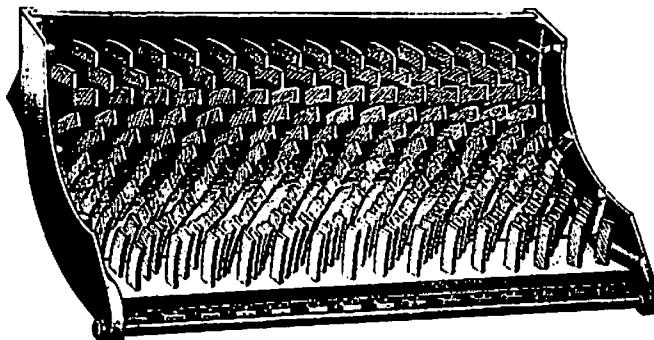
Chaff Separator

FOR those who wish to have the chaff kept separate from the straw, we offer our Chaff Separator Attachment. This is built for use with windstackers only for both the 12-bar and 20-bar cylinder machines. It consists of a partition for keeping the straw and chaff separate, and an auger which carries the chaff to one side and delivers it into the fan, which blows it in a pile separate from the straw. The auger and fan are on one shaft, so that but one extra belt is required. The attachment is shown on machine in the illustration.

"Would not be without the CASE chaff separator, if it cost double the price that I paid, as this attachment is one of great value. We find the chaff makes fine feed for horses."—J. D. SCHIMKE, Odessa, Washington.

Clover Hulling Attachment

THE CASE Clover-Hulling Attachment consists of two shoe sieves, one blank and four 3-row narrow concaves fitted with twelve rows of special corrugated clover teeth. We have a number of customers that claim they can hull double the amount of clover with our Separator, fitted with this attachment, than can be hulled with any regular clover huller, and without any more waste.



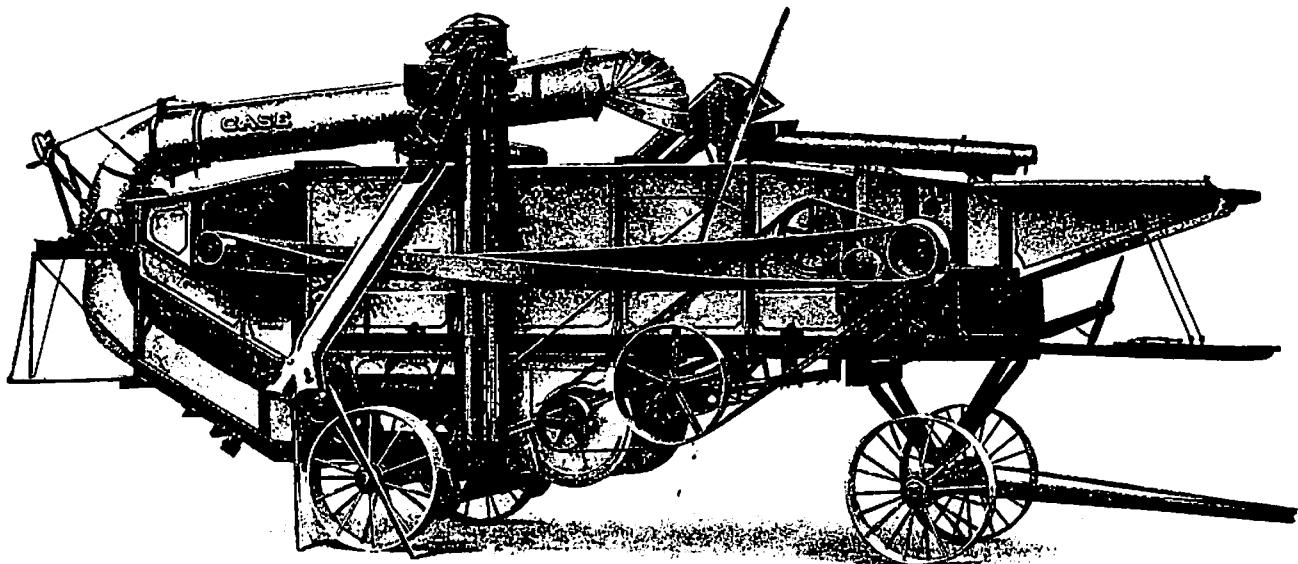
Clover Attachment

"The CASE 28-50-inch steel separator with clover attachment is doing good work. Have worn out three special clover hullers of different makes, and am hulling about as fast as two of the other makes, and I am doing as good work in every respect. If you want to do good work and make money, you want a CASE separator with clover attachment."—A. J. JONES, Murfreesboro, Tennessee.

"I purchased this season one of your CASE 28-46-inch steel separators, and must confess that I am more than pleased with the work it has done and is doing. Finished grain threshing some time ago and am now hulling clover with it, having recently purchased one of your clover attachments, which has saved me the price of a four or five hundred dollar clover huller, as all I paid for the attachment was \$27.00."—EDW. BRILINSKI, Ossineke, Michigan.

"The CASE outfit is giving the best of satisfaction. Threshes all kinds of grain well and can thresh clover faster than any clover huller in our neighborhood. The engine has run five seasons without any expense, without having a leaky flue. We consider the CASE will last longer than any other machine we have ever seen."—ROBERT MARTIN, Hagersville, Ontario, Canada.

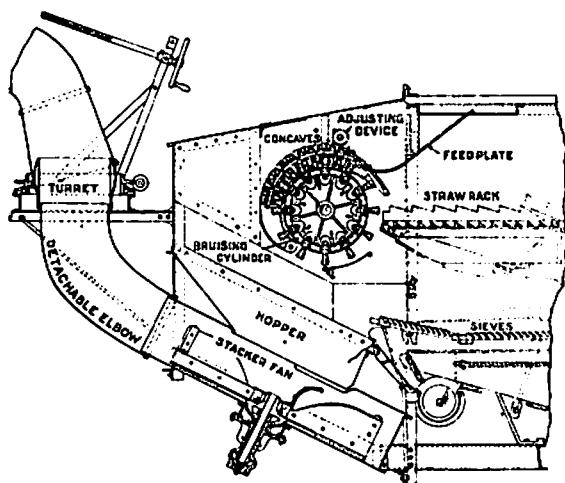
Prices Quoted on Pages 61, 62 and 63.



Straw Bruiser and Shredder

THE CASE Straw Bruiser and Shredder consists of a cylinder and concaves mounted in our Windstacker. The cylinder, which has twelve bars, extends the full width of the Separator, and is fitted with short, corrugated teeth. The concave teeth, of which there are twelve rows, are also corrugated so that the straw, after passing through the cylinder and concaves, is bruised and broken into a chaffy condition. The concaves are placed over the cylinder, and are adjustable to suit requirements; being so placed, in case a tooth comes out, there is no chance for it going through the bruising cylinder. When desired the concaves may be raised out of engagement with the cylinder teeth.

The bruising cylinder is driven from the threshing cylinder by a 5-inch rubber belt, which runs crossed. The fan of Windstacker is driven in the usual manner. The bruising cylinder is mounted in iron sides, which insure a good support for the bearings.



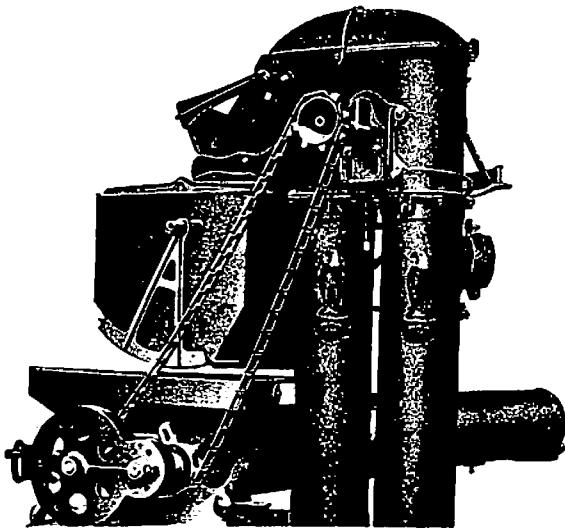
Interior View of Straw Bruiser and Shredder

THE CASE RECLEANER, while principally built for the South American grain districts, is equally well adapted for domestic trade and cleans and separates any kind of grain or seeds. It is mounted on top of the separator and driven from a special pulley on the fan shaft.

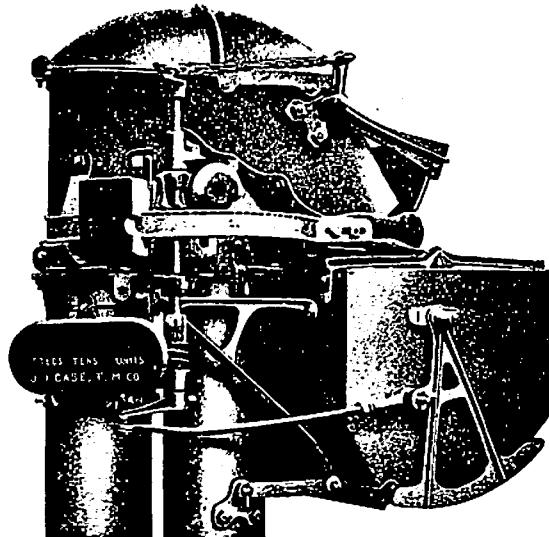
The grain or seeds, after being elevated to the Recleaner, drop into a conveyor which delivers on either side of the machine. No extra elevators are needed. Recleaners are attachable to all sizes of separators above and including the 50-inch.

Prices Quoted on Pages 61, 62 and 63.

J.I. Case Threshing Machine Company



Head of Regular Weigher
Showing Hopper, Conveyor and Chain Drive for Auger



Head of Regular Weigher
Showing Scale Beam, Tallier and Hopper

Regular Weigher No. 1

SHOULD threshermen want the best all-around attachment for handling grain they will be sure to select the CASE No. 1 Weigher, illustrations of which will be found on pages 40 and 43. It is much lower in height than any other weigher and is not folded in moving or in passing through the barn doors. It is regularly furnished with a conveyor to deliver grain on either side of machine, and with either the short wagon spout or the bagging device of our regular pattern. Unless otherwise ordered wagon spouts will be furnished.

Dakota Weigher No. 2

In the West and Northwest, where field threshing is the rule and crops are extensive, grain is generally delivered into high wagon boxes, loose or in bags, and hauled direct to the elevators. Under these conditions threshermen prefer an attachment having a high elevator to permit the use of a long spout which can be swung over the machine and deliver the grain away from the dust directly into wagons.

For such work our High Dakota Weigher No. 2 is unexcelled. The weighing mechanism is the same as on the No. 1. The spout is 16 feet long and adjustable, as to height, from the wagon. In folding it is only necessary to release the boot from auger trough; tip the elevator out at bottom sufficiently to allow the sprocket to slip off end of auger shaft, leaving the sprocket in boot, where it will remain in place. The elevator can then be swung down, upon bracket at forward end of machine, without removing spout. The Clutch Collar for sprocket, is fastened securely to shaft, and is not disturbed in folding the elevator. Our Skeleton Sprocket is very strong and still has less than half the bearing surface of others, upon which the grain can be caught and broken between sprocket and chain. With our Sprocket and Chain no cracked kernels will be found in the threshed grain.

Weighing-Bagger No. 3

Should the customer's preference be for a bagger that also weighs the grain, the CASE No. 3 Weighing Bagger will be found very satisfactory. It does not have a conveyor and therefore delivers only on the left side of Separator. The spout is long and, being supported by legs, can be placed in the most convenient position for the grain tender. See illustration on page 37. Improved bag holders are supplied. They do not punch holes in the sacks, and hold them perfectly secure.

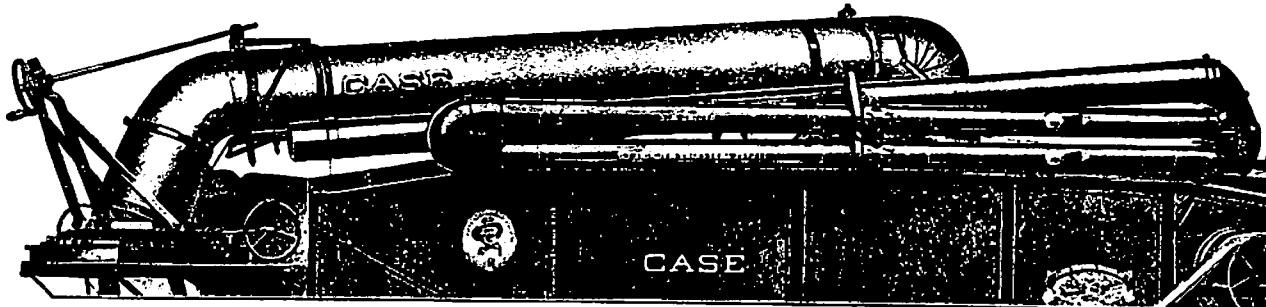


Illustration Showing No. 5 Loader Folded on Steel Machine

Short Bagger No. 4

If the farmer wants his grain delivered in sacks on the ground, and an automatic account kept of the sacks, the best on the market is the CASE No. 4 Short Tallying Bagger, as shown on page 38. It is light and handy, has ample capacity in all varieties of grain, will not clog and can be easily and quickly attached to either side of CASE Separators. Being driven by the auger-shaft no outside chains or belts are necessary. It is so arranged that the empty bag can be put on before the full one is removed, while shifting the grain from one to the other, trips the tallier and registers the number.

High Loader No. 5

Our High Loader No. 5 is very similar to Dakota Weigher No. 2, less the weighing device. It is shown in the illustration on page 42. The elevator is 15 feet high with tubes of No. 18 sheet steel, and head of malleable iron. It is driven by the grain auger so there are no outside chains, belts or other moving parts to prove vexatious to the operator. The spout is 14 feet long and is adjustable from the wagon. It has a valve at the lower end and can be used as a Bagger if desired. Elevator and spout are easily and quickly folded, in like manner to the No. 2, and without the use of tools of any kind.

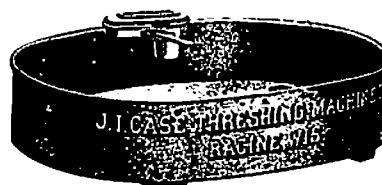
Low Loader No. 6

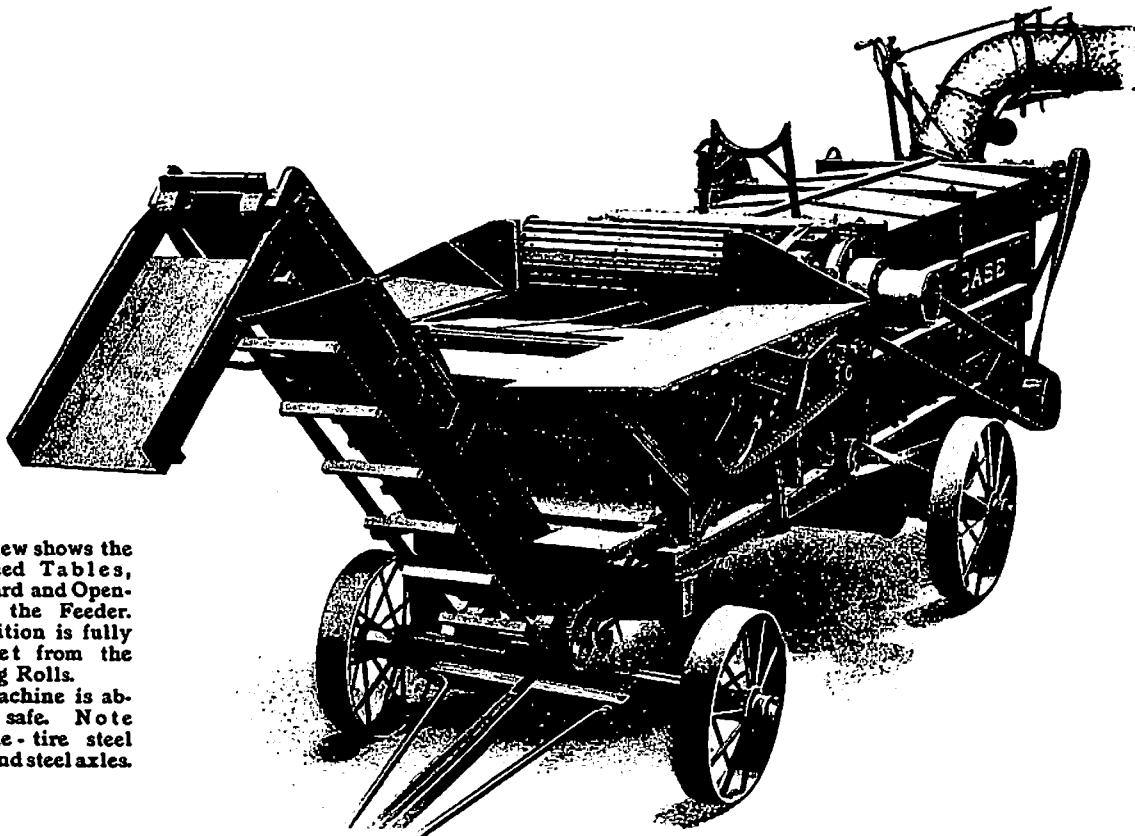
Again, should the thresherman desire an attachment for delivering into wagon boxes, our Low Loader No. 6 will be found suitable. It has a short spout and conveyor across machine which delivers the grain at either side, but not the weighing or tallying mechanism. It is shown attached to Separator on page 39. Our Low Loader will be found all right in every particular. It will be furnished with wagon spouts unless otherwise ordered.

The CASE Register

If the thresherman wants to handle his grain in half or bushel measures, we offer him the CASE Steel Register or Tally-box. It is extremely simple, perfectly reliable, keeps accurate account, and can be set in half a minute. The wheels of the Register are turned in a lathe, making them smooth and exact in operation.

Our line of attachments for handling threshed grain is not only the most complete as to styles, but the most accurate, reliable and satisfactory in operation. Of the many thousands sold each year there are no complaints. This is partly due to the fact that we furnish them exclusively for CASE Separators, carefully test them all, and see that they fit our machines perfectly. Where similar attachments are made for all descriptions of machines such accurate adjustment is not possible. We cannot too strongly urge this fact upon those contemplating the purchase of threshing machinery.





This view shows the wide Feed Tables, Foot-board and Opening for the Feeder. His position is fully five feet from the Snapping Rolls.

Our machine is absolutely safe. Note the wide-tire steel wheels and steel axles.

CASE Ten-Roll Husker-Shredder

HUSKER-SHREDDERS smaller than ten-roll have not been considered profitable to operate, therefore we build only this one size. The CASE is absolutely safe, as the feeder's position is fully five feet from the snapping rolls, and it is impossible for him to get caught in the rolls from the foot-board. Our Husker-Shredder has attained results in point of capacity, thorough husking and shredding with a small percentage of shelled corn, excellent separation and cleaning, and reduction of the stalks, blades and husks to a stover that has a stock food value equal to the best hay.

Fully one-half of the usefulness of a Husker-Shredder depends on its capacity to prepare this fodder so as to secure its full value, which when cut at the right time, amounts to 40 per cent. of the total value of the crop.

We have made a number of improvements in our Husker-Shredder since the past season that will be of interest to all threshermen. Send for our Husker-Shredder Catalog, which will be sent upon request; it gives illustrations and descriptions in full.

"Have run my CASE Husker-Shredder continually this season, not having to wait a minute for the lack of anything, while other threshermen in my vicinity have been laid up hours, in fact, days for repairs."—E. T. SCHOONOVER, Pontiac, Michigan.

"Started my engine and shredder and am well pleased with same. It works extra easy, shreds all the corn that we can get to same. If we could get corn to shredder it would shred 500 shocks per day with ease. We timed it this morning, and put through nine shocks in eight minutes by the watch. The shredded fodder is the best I have ever seen."—J. W. EDWARDS & BRO., Boston, Kentucky.



FREE ON BOARD CARS AT RACINE, WISCONSIN, U. S. A.

Terms of Payment

For All Cash: Ten per cent. discount from list prices where all cash is paid at time of delivery except on Wind and Combination Stackers, on which the discount is six per cent.; Clover Attachments and all items marked "Net" are not subject to cash discount.

"Simple" Traction Engines

$7\frac{1}{4} \times 10$ -inch Cylinder, Rated 9-horse, coal burner only	\$1,200.00
$8\frac{1}{4} \times 10$ -inch Cylinder, Rated 12-horse.....	1,300.00
9×10 -inch Cylinder, Rated 15-horse.....	1,450.00
10×10 -inch Cylinder, Rated 20-horse.....	1,700.00
11×11 -inch Cylinder, Rated 25-horse.....	2,000.00
12×12 -inch Cylinder, Rated 32-horse.....	3,000.00

For Straw-Burning Attachment, including Jacket on Boiler, add \$50 to prices above.

Straw-Burning Attachment for 32-horse Engines.....\$50.00
Jacket is included in price of 32-horse Engines.

"Compounded" Traction Engines

$5\frac{1}{4} \times 8\frac{1}{2} \times 10$ -inch Cylinder, Rated 9-horse, coal only	\$1,300.00
$6\frac{1}{8} \times 9 \times 10$ -inch Cylinder, Rated 12-horse.....	1,400.00
$7 \times 10 \times 10$ -inch Cylinder, Rated 15-horse.....	1,550.00
$7\frac{1}{4} \times 11 \times 10$ -inch Cylinder, Rated 20-horse.....	1,800.00
$9\frac{1}{4} \times 13 \times 11$ -inch Cylinder, Rated 25-horse.....	2,100.00

For Straw-Burning Attachment, including Jacket on Boiler, add \$50 to prices above.

All Straw-Burning Engines are jacketed unless otherwise ordered. For Jacketing Coal-Burning Engine (except 32-horse) add \$30.

Traction Engine Extras

A reduction of \$17.50 will be allowed from list price of new engine when platform tank is not wanted.

For double-speed gear on 32-horse Engine add \$100.00.
Jacket and Lagging on Boiler (except 32-horse).....\$30.00

Traction Engine Tongue with Doubletrees and Neck-yoke (except 32-horse) net cash..... 12.00

Driver's Seat and Footboard for Traction Engine, net
cash..... 3.00

Engine Canopy "9 Horse"..... 25.00

Engine Canopy, short (except 9 and 32-horse)..... 25.00

Engine Canopy, long (except 9 and 32-horse)..... 40.00

Locomotive Cab for 32-horse Engine..... 75.00

Friction Foot Brake for Traction Engine, net..... 10.00

If wider tires than those regularly furnished on engines are wanted, for each 2 inches extra width, add to list price \$25.00. No reduction if narrower tires are ordered.

Extension Rims

12-inch Extension Rims 20-Horse Engine.....	\$150.00
12-inch Extension Rims 25-Horse Engine.....	150.00
12-inch Extension Rims 32-Horse Engine.....	175.00

Road Rollers

$8\frac{1}{4} \times 10$ -inch Cylinder 10-Ton Road Roller....	\$2,200	\$2,300
$8\frac{1}{4} \times 10$ -inch Cylinder 12-Ton Road Roller....	2,500	2,600

"Simple" Portable Engines

6×8 -inch Cylinder, Rated 6-horse, coal burner only	\$ 500.00
$7\frac{1}{4} \times 10$ -inch Cylinder, Rated 9-horse, coal burner only	700.00
$8\frac{1}{4} \times 10$ -inch Cylinder, Rated 12-horse.....	800.00
9×10 -inch Cylinder, Rated 15-horse.....	900.00
10×10 -inch Cylinder, Rated 20-horse.....	1,000.00
11×11 -inch Cylinder, Rated 25-horse.....	1,100.00

For Straw-Burning Attachment, including Jacket on Boiler, add \$50 to prices above.

"Compounded" Portable Engines

$5\frac{1}{4} \times 8\frac{1}{2} \times 10$ -inch Cylinder, 9-horse, coal burner only.....	\$ 800.00
$6\frac{1}{8} \times 9 \times 10$ -inch Cylinder, Rated 12-horse	900.00
$7 \times 10 \times 10$ -inch Cylinder, Rated 15-horse.....	1,000.00
$7\frac{1}{4} \times 11 \times 10$ -inch Cylinder, Rated 20-horse.....	1,100.00
$9\frac{1}{4} \times 13 \times 11$ -inch Cylinder, Rated 25-horse.....	1,200.00

For Straw-Burning Attachment, including Jacket on Boiler, add \$50 to prices above.

Portable Engine Extras

Brake for Portable Engine, net.....	\$10.00
Driver's Seat and Footboard for Portable Engine, net cash.....	3.00
Portable Engine Tongue with Doubletrees and Neck- yoke, net cash.....	12.00

Steel Tanks

12-Barrel, mounted on Steel Wheel Trucks.....	\$100.00
12-Barrel, unmounted for Farm Wagon.....	60.00
8-Barrel, Engine Tender Tank.....	85.00
8-Barrel, Engine Tender Tank, with Straw Rack	100.00

In ordering Water Tanks state whether mounted or un-mounted; if unmounted state width of wagon bolster; if tank pump is wanted, state so. Also state if brake is wanted.

Tank Extras

Brake for Mounted Water Tank, net cash.....	\$ 6.00
CASE Tank Pump and Hose, net cash.....	13.00
Sprinkling Attachment.....	35.00

Trucks

For Mounted Water Tank with Whiffetrees and Neckyoke.....	\$40.00
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Plowing Attachment

Plowing Attachment (without Plows).....	\$200.00
Contractor's Fuel Bunkers.....	100.00

For Prices on Supplies see our Special Cash with Order Supply Catalog.



FREE ON BOARD CARS AT RACINE, WISCONSIN, U. S. A.

Steel Separators

With Trucks, but without Stacker, Power, Brake, Tumbling Rods or Hand Feed Attachment.

36-inch, Gear or Belt, 18 x 22-inch Cyl., 12-bar.....	\$340.00
42-inch, Gear or Belt, 24 x 22-inch Cyl., 12-bar.....	365.00
46-inch, Gear or Belt, 28 x 22-inch Cyl., 12-bar.....	390.00
50-inch, Belt only, 28 x 32-inch Cyl., 20-bar.....	425.00
54-inch, Belt only, 32 x 32-inch Cyl., 20-bar.....	475.00
58-inch, Belt only, 36 x 32-inch Cyl., 20-bar.....	525.00
62-inch, Belt only, 40 x 32-inch Cyl., 20-bar.....	575.00
66-inch, Belt only, 44 x 32-inch Cyl., 20-bar.....	625.00
For Trucks not wanted, deduct	30.00

When ordering Separators be sure to state "belt" or "gear" and to give the dimensions as above.

Jacks for separators are furnished with geared machines only.

Give name, diameter of fly-wheel and number of revolutions of engine, in order that the proper size of cylinder pulley may be sent to give cylinder its correct speed: 12-bar, 1075; 20-bar, 750 revolutions per minute.

Separator Trucks

For Separator, with Whiffletrees and Neckyoke.....\$60.00

Separator Extras

CASE Register and Steel Box, net cash.....	\$ 3.00
Hand Feed Attachment, net cash.....	10.00
Separator Brake (give rear width of machine) net cash.....	10.00

Feeders and Band Cutters

For 36-inch Separator, 18 x 22-inch 12-bar Cyl.....	\$130.00
For 42-inch Separator, 24 x 22-inch 12-bar Cyl.....	140.00
For 46-inch Separator, 28 x 22-inch 12-bar Cyl.....	150.00
For 50-inch Separator, 28 x 32-inch 20-bar Cyl.....	150.00
For 54-inch Separator, 32 x 32-inch 20-bar Cyl.....	160.00
For 58-inch Separator, 36 x 32-inch 20-bar Cyl.....	170.00
For 62-inch Separator, 40 x 32-inch 20-bar Cyl.....	180.00
For 66-inch Separator, 44 x 32-inch 20-bar Cyl.....	190.00
Number 8 Special Spokane Feeder.....	250.00
Number 9 Spokane Feeder with 12-ft. Carrier.....	200.00
Mounted Steel Extension Feeder Carrier.....	40.00

Case Windstackers

All Sizes (two September Payments).....	\$250.00
Cash.....	235.00

In ordering Windstackers it is necessary to give number and width of rear of machine.

Common Folding Stackers

With Rake, Lower Shaft, Boxes and Pulleys, Belt, Hoisting Rig and Rope

The 16-foot length common stacker is furnished for the 36-inch separator only.

Common folding stackers built in lengths of 18, 22 and 24 feet only. State plainly in order length wanted.

16-foot, for 36-inch Separator only.....	\$30.00
18-foot, for all width Separators.....	30.00
22-foot, for all width Separators.....	38.00
24-foot, for all width Separators.....	42.00
CASE Side Stacker, complete	55.00
Parts to change Common to Side Stacker.....	25.00

Purchasers ordering a machine without folding stacker, will bear in mind that the stacker frame, lower shaft, pulleys and boxes, stacker hoisting-ropes, belt and rake will be taken off, and are extra at an extra price.

Combination Stackers

For all sizes of Separators.....	\$250.00
Combination Stacker, Chute and Gearing only.....	100.00
Combination Stacker complete, and Windstacker Pipe.....	300.00

Automatic Swinging Stackers.

Attached Stacker for all widths of Separators.....\$200.00



FREE ON BOARD CARS AT RACINE, WISCONSIN, U. S. A.

Husker-Shredder

10-roll complete with Windstacker and Bagger.....\$700.00

Weighers, Loaders and Baggers

No. 1—Weigher (with conveyor across machine) with bagging attachment or steel spouts.....	\$ 75.00
No. 1—Weigher (conveyor across machine) with both bagging attachment and spouts.....	80.00
No. 2—Dakota Style Weigher.....	75.00
No. 3—Weigher with bagging attachment (for left side of machine only).....	65.00
No. 4—Short Tallying-Bagger.....	30.00
No. 5—High Wagon Loader.....	50.00
No. 6—Low Wagon Loader (with conveyor) with bagging attachment or wagon spouts.....	65.00
No. 6—Low Wagon Loader (with conveyor) and both bagging attachments and wagon spouts.....	70.00

In ordering weighers, elevators and baggers, give style wanted and state the number and width of rear of machine.

Clover Attachments

Consisting of four filled concaves, one blank, one sieve and two concave circles.

For 18-inch Cylinder Separator.....	\$ 26.00
For 24-inch Cylinder Separator.....	30.00
For 28-inch Cylinder Separator.....	33.00
For 32-inch Cylinder Separator.....	36.00
For 36-inch Cylinder Separator.....	40.00
For 40-inch Cylinder Separator.....	43.00
For 44-inch Cylinder Separator.....	46.00

In ordering state diameter and width of cylinder; also width of rear of separator.

Chaff Separator

For all sizes of Separators.....\$ 50.00

Recleaners

Complete for 50-inch Separator or larger\$125.00

Note—Orders for recleaners should state sieves wanted or kind of grain and seeds to be threshed. Four sieves or one adjustable sieve and a screen furnished.

Straw Bruisers

Straw Bruisers including Windstacker\$350.00

Dingee-Woodbury Powers

Double Pinions with Levers, Braces, Whiffletrees, Neckyoke, Equalizers, three Couplings and two Tumbling-Rods.	
6-horse metal frame	\$170.00
8-horse metal frame	180.00
10-horse metal frame	190.00
12-horse metal frame	200.00
14-horse metal frame	210.00
For Horse-Power Jack, add to above.....	25.00
Brake.....	3.50

For Powers ordered without equalizers, deduct from list \$3.50 for 6-horse; \$4.50 for 8-horse; \$5.50 for 10-horse; \$6.50 for 12-horse and \$7.50 for 14-horse.

Trucks

For Horse-Power with Whiffletrees and Neckyoke...\$ 35.00

Equalizers for Horse-Power

For 6 Horse-Power.....	\$ 7.00
For 8 Horse-Power.....	9.00
For 10 Horse-Power.....	11.00
For 12 Horse-Power.....	13.00
For 14 Horse-Power.....	15.00

Rubber Drive Belts

150 feet 6-inch 4-ply, net.....	\$ 45.00
150 feet 7-inch 4-ply, net.....	53.00
150 feet 8-inch 4-ply, net.....	62.00

Main drive belts are not furnished free with full steam riga.

Canvas Drive Belts

120 feet 6-inch 4-ply, net cash	\$ 22.00
120 feet 7-inch 4-ply, net cash.....	25.00
150 feet 6-inch 4-ply, net cash.....	27.00
150 feet 7-inch 4-ply, net cash.....	31.50
150 feet 8-inch 4-ply, net cash.....	35.50
160 feet 8-inch 4-ply, net cash.....	38.00
150 feet 7-inch 5-ply, net cash.....	38.00
150 feet 8-inch 5-ply, net cash.....	44.00
160 feet 8-inch 5-ply, net cash.....	47.00
160 feet 9-inch 5-ply, net cash.....	53.50
150 feet 7-inch 6-ply, net cash.....	46.00
150 feet 8-inch 6-ply, net cash.....	52.00
160 feet 8-inch 6-ply, net cash	55.50
160 feet 9-inch 6-ply, net cash	64.50

For Prices on Supplies see our Special Cash with Order Supply Catalog.

CASE ENGINES--Comparative Dimensions.

	Rated Horse-Power	STYLE OF ENGINE		CYLINDER		BOILER		FLY-WHEEL		TRACTION		PORTABLE																					
				High Pressure--Inches	Low Pressure--Inches	Stroke--Inches	Barrel Diameter--Inches	FIRE-BOX	TUBES	Length--Inches	Width--Inches	Height--Inches	Number	Diameter--Inches	Length--Inches	Grate Area--Square Feet	Heating Surface--Square Feet	Heating Surface per Rated H. P. Square Ft.	Steam Pressure Pounds per Square Inch	Diameter--Inches	Face--Inches	Normal Speed Revolutions per Minute	Miles per Hour at Normal Speed	Diameter--Inches	Face--Inches	Diameter--Inches	Distance Between Axles--Inches	Extreme Width of Engine--Inches	Diameter--Inches	Face--Inches	Diameter--Inches	Face--Inches	REAR WHEELS
6	18	Simple	6	8	22	26	20	30 $\frac{1}{4}$	30	1 $\frac{1}{4}$	54	3.6	83.5	13.9	130	36	7	250	.....	.....	.....	.....	.....	.....	.....	.....	36	4	30	4		
9	30	Simple	7 $\frac{1}{4}$	10	26	30	23 $\frac{1}{4}$	28	38	1 $\frac{1}{4}$	67	4.89	119.3	13.25	130	36	9 $\frac{1}{4}$	250	2.26	53	14	38	8	97 $\frac{1}{4}$	85	44	8	38	8	38	8	38	8
9	30	Compounded	5 $\frac{1}{4}$	8 $\frac{1}{4}$	10	26	30	23 $\frac{1}{4}$	28	38	1 $\frac{1}{4}$	67	4.89	119.3	13.25	130	36	9 $\frac{1}{4}$	250	2.26	53	14	38	8	97 $\frac{1}{4}$	85	44	8	38	8	38	8	
12	36	Simple	8 $\frac{1}{4}$	10	26	35	25 $\frac{1}{4}$	35 $\frac{1}{4}$	30	2	77	6.19	134.5	11.2	130	40	10 $\frac{1}{4}$	250	2.61	60	16	42	8	113 $\frac{1}{4}$	89	53	10	42	8	42	8		
12	36	Compounded	6 $\frac{1}{4}$	9	10	26	35	25 $\frac{1}{4}$	35 $\frac{1}{4}$	30	2	77	6.19	134.5	11.2	130	40	10 $\frac{1}{4}$	250	2.61	60	16	42	8	113 $\frac{1}{4}$	89	53	10	42	8	42	8	
15	45	Simple	9	10	28	39 $\frac{1}{4}$	25 $\frac{1}{4}$	35 $\frac{1}{4}$	36	2	84 $\frac{1}{2}$	7.	169.3	11.3	130	40	12	250	2.62	60	18	42	10	126	93	53	12	42	10	42	10		
15	45	Compounded	7	10	10	28	39 $\frac{1}{4}$	25 $\frac{1}{4}$	35 $\frac{1}{4}$	36	2	84 $\frac{1}{2}$	7.	169.3	11.3	130	40	12	250	2.62	60	18	42	10	126	93	53	12	42	10	42	10	
20	60	Simple	10	10	30 $\frac{1}{4}$	42	27	35 $\frac{1}{4}$	47	2	90	7.88	225.2	11.26	130	40	12	250	2.61	66	20	44	10	133 $\frac{1}{4}$	98 $\frac{1}{4}$	53	12	42	10	42	10		
20	60	Compounded	7 $\frac{1}{4}$	11	10	30 $\frac{1}{4}$	42	27	35 $\frac{1}{4}$	47	2	90	7.88	225.2	11.26	130	40	12	250	2.61	66	20	44	10	133 $\frac{1}{4}$	98 $\frac{1}{4}$	53	12	42	10	42	10	
25	75	Simple	11	11	34	44	31	36 $\frac{1}{4}$	60	2	96 $\frac{1}{2}$	9.47	296.5	11.86	130	40	12	250	2.52	66	24	44	12	142 $\frac{1}{4}$	112	53	12	42	10	42	10		
25	75	Compounded	9 $\frac{1}{4}$	13	11	34	44	31	36 $\frac{1}{4}$	60	2	96 $\frac{1}{2}$	9.47	296.5	11.86	130	40	12	250	2.52	66	24	44	12	142 $\frac{1}{4}$	112	53	12	42	10	42	10	
32	110	Simple	12	12	38	49 $\frac{1}{4}$	35 $\frac{1}{4}$	41	78	2	100	12.05	402.5	12.58	160	43 $\frac{1}{2}$	16	230	2.37	84	36	53	14	146	128	53	12	42	10	42	10		
36	140	10-Ton Road Roller	8 $\frac{1}{4}$	12	10	26	35	35 $\frac{1}{4}$	30	2	77	6.19	134.9	11.2	130	36	9 $\frac{1}{4}$	250	3.1	72	20	41	50	114	85	32	12	42	10	42	10		
DIMENSIONS OF ENGINES MADE IN ENGLAND.																																	
6	English Standard	8 $\frac{1}{4}$	12	21	29 $\frac{1}{4}$	36 $\frac{1}{4}$	24	2 $\frac{1}{4}$	71	42	127.9	21.3	120	54	6	155	50	6	39	6	39	6	39	6	39	6	39	6	39	6	39	6	
6	English Colonial	8 $\frac{1}{4}$	12	30	29 $\frac{1}{4}$	36 $\frac{1}{4}$	24	2 $\frac{1}{4}$	71	6.1	133.8	22.3	120	54	6	155	50	6	39	6	39	6	39	6	39	6	39	6	39	6	39	6	
8	English Standard	10	12	24	31 $\frac{1}{4}$	39 $\frac{1}{4}$	30	2 $\frac{1}{4}$	77	5.3	169.8	21.2	120	56 $\frac{1}{4}$	8	145	54	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	
8	English Colonial	10	12	36	31 $\frac{1}{4}$	39 $\frac{1}{4}$	30	2 $\frac{1}{4}$	77	7.9	178.	22.2	120	56 $\frac{1}{4}$	8	145	54	7	39	7	39	7	39	7	39	7	39	7	39	7	39	7	
10	English Standard	11	14	27	34 $\frac{1}{4}$	41 $\frac{1}{4}$	34	2 $\frac{1}{4}$	86	6.4	212.2	21.2	120	60	9	140	54	8	42	8	42	8	42	8	42	8	42	8	42	8	42	8	
10	English Colonial	11	14	40 $\frac{1}{4}$	34 $\frac{1}{4}$	41 $\frac{1}{4}$	34	2 $\frac{1}{4}$	86	9.7	222.2	22.2	120	60	9	140	54	8	42	8	42	8	42	8	42	8	42	8	42	8			
12	English Standard	12	16	30	35 $\frac{1}{4}$	45	37	2 $\frac{1}{4}$	93 $\frac{1}{4}$	7.4	249.8	20.8	120	66	10	130	54	8	42	8	42	8	42	8	42	8	42	8	42	8			
12	English Colonial	12	16	45	55 $\frac{1}{4}$	45	37	2 $\frac{1}{4}$	93 $\frac{1}{4}$	4.1	261.7	21.8	120	66	10	130	54	8	42	8	42	8	42	8	42	8	42	8	42	8			



